

10-1-2005

BS News

Follow this and additional works at: <https://arrow.tudublin.ie/bsn>



Part of the [Civil Engineering Commons](#), [Construction Engineering Commons](#), and the [Construction Engineering and Management Commons](#)

Recommended Citation

(2005) "BS News," *Building Services News*: Vol. 44: Iss. 9, Article 1.

Available at: <https://arrow.tudublin.ie/bsn/vol44/iss9/1>

This Article is brought to you for free and open access by the Journals at ARROW@TU Dublin. It has been accepted for inclusion in Building Services News by an authorized administrator of ARROW@TU Dublin. For more information, please contact yvonne.desmond@tudublin.ie, arrow.admin@tudublin.ie, brian.widdis@tudublin.ie.



This work is licensed under a [Creative Commons Attribution-Noncommercial-Share Alike 3.0 License](#)

BSNews

MECHANICAL & ELECTRICAL BUILDING SERVICES

**Cork City Hall — The
Cranes Say It All!**

**Dedicated 64-page
Issue on Cork's
Construction Boom**

economical ecological ecolution: high performance solution



ECOLUTION is the new generation of split, multi-split and VRF inverter systems from Mitsubishi Heavy Industries Ltd.

Packed with new features, our intelligent design ensures high performance combined with ultra energy efficiency. All models are now quieter, smaller and lighter, allowing a simple and neat installation for applications from a single room to an entire building.

ECOLUTION - high performance solution.



3D Air Sales (Ireland) Ltd,
Tel: 01 - 462 7570 Fax: 01 - 462 7611

BSNews

MECHANICAL & ELECTRICAL
BUILDING SERVICES

ISSN 0791-0878

Published by:

Pressline Ltd,
Carraig Court,
George's Avenue,
Blackrock, Co Dublin.
Tel: 01 - 288 5001/2/3 Fax: 01 - 288 6966
ISDN: 01 - 211 2338/9
email: bsnews@pressline.ie
Website: www.buildingservicesnews.com

Editor: Pat Lehane

Advertisement Director: Joe Warren

General Manager: Louise Byrne

Origination and Design:

Pressline Ltd. Tel: 01 - 288 5001

Subscription: One Year —€65

Printed by: Ebrook.

© All editorial contents and all
advertisements prepared by the publishers,
Pressline Ltd.



In preparing this dedicated 64-page Cork issue, *BSNews* commissioned the expertise of local-based journalist Gavin Reardon. In addition to clarifying the facts, he also helped us understand — and portray — the social and cultural significance behind the transformation of Cork City and County.

We have examined the strategies behind the overall development; looked at projects recently completed; detailed projects currently underway and entering new phases; and identified projects at drawing board and planning application stage.

Published by ARROW@TU Dublin, 2005

OPINION

Corcaigh Abú!

With something like €2 billion already spent on construction and infrastructure projects over the last two years alone, it is hardly surprising that the entire physical, social and cultural fabric of Cork City and County has dramatically changed.

Even more important still is the cohesive manner in which this process is being managed. Both City and County officials have been dynamic, yet controlled. The various strategies adopted are well thought out and, for the most part, have delivered excellent results. There also appears to be a very strong understanding between city and council officials and the private sector.

Working together they are creating a new Cork but one which, despite the rate and intensity of change, still retains the fundamental elements of the city's and county's character and landscape.

It is quite a remarkable achievement and one which augers well for the massive development programme planned for the next few years.

BSNews wishes to acknowledge the contribution of Minister for Enterprise, Trade & Employment, Mr Michéal Martin, TD, who has written a special foreword (see page 2).

IN THIS ISSUE

Minister for Enterprise, Trade & Employment — Foreword	2
Strategy Overview — City & County	4
Key Suppliers — Manotherm; Core AC; BJ Caraher; Mark Eire	8
City & Suburban Projects — Completed & Underway	12
Key Suppliers — SCS; QPL; Grundfos; 3D Air Sales	24
City & Suburban Projects — In the Pipeline	28
Cork County — Local Area Plan Strategy	38
Key Suppliers — RSL; Calpeda Pumps; Wavin; Sanyo AC; SelfBuild	42
Cork County Projects — In the Pipeline	49
Key Suppliers — York; IMI; Fläkt Woods; Wilo; BSS; Entropic; Aermec	53

Ministers Message



Minister for Enterprise, Trade & Employment, Mr Michéal Martin, TD

As a Corkman I am delighted that *BSNews* dedicated this latest edition to a special profile on Cork. Over the last 20 years Cork city and county have undergone phenomenal changes. The decision of so many international market leaders to locate in Cork reflects the strengths of the city's economy, and its attractiveness to successful multi-nationals around the world.

The construction sector in Cork has delivered facilities and projects to these companies that are world class and state-of-the-art, and this is an essential element of the success story that is Cork today.

Cork is very much at the forefront of the great progress our country has seen over recent years. It is a vibrant and successful place at the cutting edge, both nationally and internationally. While at one time Cork may have been known for the scale of the problems it faced, it is now known as a model to be copied. Central to this is the talent, hard work and enterprise of the people of Cork.

Today most of the world leaders in pharmaceuticals, data storage, pc systems, software development, shared-services and multi-lingual technical support are based in Cork. In all 65 international firms are based here and employ thousands of people. Irish-owned firms have also played a central role in Cork's growth and today there are 22 such firms operating in Cork.

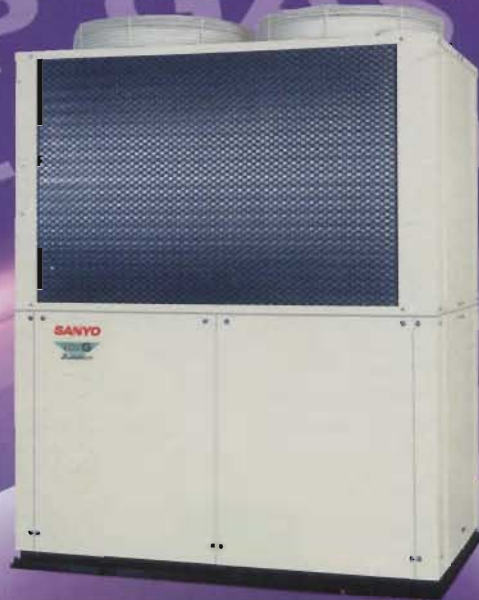
Ireland has been spectacularly successful as a country over the past decade, but we now face new challenges. We have to move to a more advanced level of investment, bearing in mind the higher costs and lower level of unemployment we now experience.

In Cork, as elsewhere, there is a need to mobilise initiatives and resources on a regional rather than on a purely local basis, so as to compete effectively with other strong regions, cities and countries. I'm happy to say that Cork is now very well positioned to do that.

No power? The unique solution

SANYO
AIR CONDITIONERS

ECO G 3 Way Gas Heat Pump: 20HP



Building on the success of the 2 pipe GHP Range, SANYO are proud to introduce the new 3 Way ECO G Gas Heat Pump, the only GHP VRF System to provide simultaneous heating and cooling.

Unlike traditional electric VRF systems, the ECO G range uses natural gas or lpg as the main source of power and only requires a single phase power supply to provide 56.0kW of cooling and 67.0kW of heating.

In Japan, the world's largest market for VRF, Gas Heat Pump systems account for 40% of the total market and SANYO, with 19 years of GHP experience are the clear market leaders.

- Simultaneous heating and cooling
- 56.0kW nominal cooling capacity
- Single phase power supply
- 100% cooling and heating capacity even at -20°C
- Maximum running current 5.4 amps
- 10 indoor model styles, 11 indoor model capacities

Whether choosing from the ECO G GHP range because of power problems or lower lifecycle costs, you'll find it simple to apply, install and maintain. The units also qualify for the Enhanced Capital Allowance Scheme. SANYO - a good decision all round.



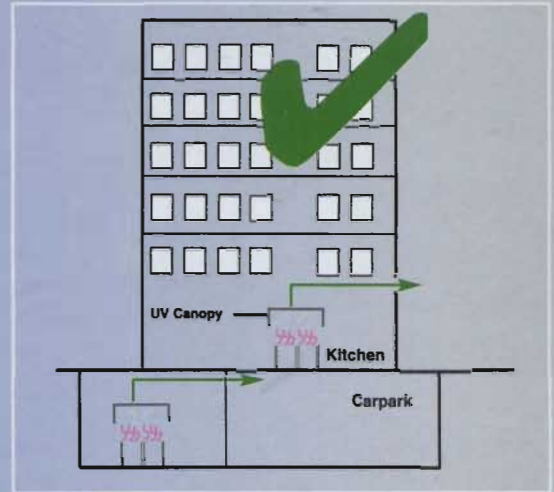
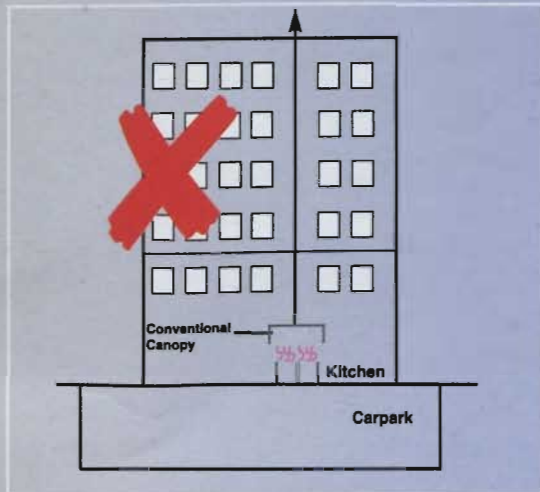
Strategy Overview

Cork city and county is booming. The landscape is changing on an almost daily basis, with the proliferation of construction sites in the city being mirrored by the massive number, and diverse range, of developments scattered all across the county itself. A skyline pock-marked by massive crane jibs and roads congested with convoys of vehicles servicing literally hundreds of construction sites bear testimony to what is undoubtedly a massive resurgence of commerce in the region.



Halton Capture Ray Kitchen Canopies from Entropic

Combining multi-cyclone filters with ultra violet technology



Ever thought of exhausting at low level or into a basement carpark? Now you can

The benefits are

- Reduced airflows and energy consumption with Capture Jet technology — Elimination of grease and odours —
- Reduced risk of fire — Commercial kitchens in new locations —
- Energy recovery from kitchen exhaust is now possible — Guaranteed comfort conditions



For further information please contact:

Unit 3 Block F, Maynooth Business Campus, Maynooth, Co Kildare

Tel: 01 - 610 6170

Fax: 01 - 610 6171

email: info@entropic.ie

web: www.entropic.ie

Halton Cooled Beams from Entropic

Provide Heating, Cooling and Ventilation with
Very Low Noise, Low Energy & Low Maintenance Costs



Multi-Service Beam



Hotel Beam

The benefits are

- Lower energy and higher comfort conditions than "natural" ventilation systems
- Optional accessories include:— Lighting, PA, Smoke Detection, PIR Sensors, etc



For further information please contact:

Unit 3 Block F, Maynooth Business Campus, Maynooth, Co Kildare

Fax: 01 - 610 6171

email: info@entropic.ie

web: www.entropic.ie

But it was not always so in Cork. Even as recently as the year 2000 the Tiger Economy — which was rampant in Dublin — seemed to be passing Cork by. But then in 2001 Cork was designated European Capital of Culture for 2005 while, at the same time, investment in infrastructural projects were also beginning to bear fruit.

The facelift at the city's main thoroughfare of St Patrick Street undeniably did much to improve the atmosphere in the city centre, providing more space for pedestrians, and a home for street theatre and entertainment. Renowned Catalan architect, Beth Gali was responsible.

Another example was the completion of the €300 million main drainage works in the city, culminating with a new wastewater treatment plant costing €100 million at Carrigennan. The city's parking and traffic problems were also eased with the superb Black Ash Park & Ride facility, and the North City Link Road.

With these initiatives came a new-found sense of pride, confidence and optimism. Business picked up, more tourists came to visit, and an enlightened City Council — with City Manager Joe Gavin at the helm — devised a strategically-planned vision that would transform the City and County of Cork. Even more important still was their determination and zeal in seeing to it that the plan was implemented.

Critically, the plan is constantly being re-evaluated in line with the changing retail, commercial, residential and cultural requirements of the city, thereby making it vibrant and dynamic. This, in turn, has spawned and cultivated an entrepreneurial spirit in respect of construction activity, and led to the emergence of new, locally-bred, developers who are now gaining a foothold on the national stage.

As Joe Gavin told the local *Evening Echo* recently: "Our prime role is to create the environment to enable the private sector to deliver good development in the city. Our job is to act as facilitators, to be supportive of good-quality development, and to provide the infrastructure to allow it happen. Private investors are investing heavily here in terms of retail, offices and hotels, and all of that is very welcome." Looking to the future, Mr Gavin predicts that Cork will enjoy a 50% increase in city retail size from one million sq ft to 1.5 million sq ft between now and 2009.

In the last three years alone something like €2 billion has been spent on major construction projects in Cork city and county. Nearly 6000 homes were built in 2004 with completions for 2005 set to hit 7000. On the commercial front 450,000 sq ft of third-generation office space, along with 500,000 sq ft of retail space, will be completed within the next three years.

As well as the city

itself, what's called the Metropolitan Area — the satellite towns and areas in the immediate hinterland of the City of Cork — will in time be serviced by an integrated rail and bus service, thereby fuelling further growth. Included in this category are Ballincollig, Blarney, Carrigaline, Douglas, Glanmire, Glounthaune, Carrigtwohill, Middleton and Cobh.

In October 2001 Cork City Council and Cork County Council adopted the jointly-prepared Cork Area Strategic Plan 2001-2020 (CASP), which encompasses a current population of about 350,000 people. The CASP covers areas of Cork within an approximate journey time of 45 minutes from the city, and is therefore larger than the more central Metropolitan area. It envisages population growth of 23%, with 62,000 new homes built (12,000 in Cork city) and 40,000 new jobs required in the study area during the lifetime of the plan.

As the foregoing illustrates, construction activity in the greater Cork region is at an all-time high.

**Much has been achieved,
great things are currently
underway, but this is merely
the tip of the iceberg.
The best is yet to come!**

BE > THINK > INNOVATE >

et al.: BS News

Unit A Merrywell Business Park, Ballymount Road Lower, Dublin 12.

Tel: 01 - 408 9800 Fax: 01 - 408 9830

email: info-ie@grundfos.com Website: www.grundfos.com

Meet the A-team

Amazingly adaptable



By popular demand, Grundfos has steadily expanded the MAGNA range to the point where it now boasts a total of 27 different models - all with the AUTOADAPT function.

The new Magna range provides flows from as little as 1 m³/h up to 39 m³/h.

All MAGNA pumps are labelled A on the energy scale.

GRUNDFOS

Manotherm — Simple Control Solutions for Sophisticated Applications

key suppliers

The name Manotherm is synonymous with instruments and controls in Ireland. The company was established in 1958 with the objective of providing instrumentation and control solutions for both process and research industries using the most advanced products available. These industries are well established in the Cork region and, over the years, Manotherm has established itself as the leading supplier to this sector.

The Manotherm



Push button temperature transmitter

portfolio is made up of international, market-leading brands from across the globe such as West Instrument, Johnson Controls, Rüeger, Seetru and Bindicator. Over the years the product offering steadily increased with the inclusion of Dwyer Instruments, Gems Sensors, Land Infrared, Jordan Valve, PR Electronics and a host



The Model NVII

of others.

The expansive scope of the range provides competitively-priced precision instruments for measuring, transmitting and controlling pressure, temperature, level and flow. The product types include flow, level, temperature, pressure, humidity, valves, and infrared measuring devices.

Market segments catered for include pharmaceutical, food, water, power generation, chemical, semiconductor, HVAC, oil and gas. As such it is ideally suited to the changing face of Cork where projects reflecting the aforementioned application requirements are now materialising at an incredible rate.

A recent addition to the range is the new Series SFI-100T low-cost, sight-flow, indicator/transmitter from Dwyer Instruments. This durable paddle-wheel style flow indicator with output sensor uses

no magnets in the paddlewheel to attract ferrous materials. Construction is of a rugged, solid brass body with tempered glass window that enables viewing of the bright red PBT paddlewheel.

Units are constructed of all ultraviolet stabilised materials for outdoor service. The A-711T output sensor has a pulsed VDC output for flow rate and totalisation. For added versatility there are two output choices of 5 VDC or a VDC equal to the input power supplied of 8 to 28 VDC. The output is compatible with digital rate meters/totalizers and other electronic systems.

The SFI-100T has an excellent pressure rating of 125 psi (8.62 bar), temperature rating of 93°C, and chemical compatibility. It is compact and weatherproof, and the

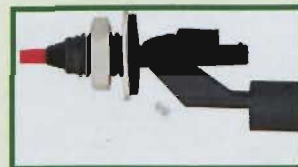


The new Dwyer Instruments' Series 641B air velocity Transmitter available from Manotherm

A-711T output sensor package can be replaced on existing units in the field. Easy maintenance is assured with interior access afforded by the removable front window. It is perfect

for water purification, laser cooling, water injection, chillers, and other demanding applications.

Also new from Manotherm is the Love Controls Series TSS dual-stage temperature switch. This microprocessor-based switch is an economical alternative for many heating, cooling, and static defrost timing applications. The unit is designed to accept up to two inputs with independent 8 Amp relay output for dual stage control.



Gems Sensors' LS-7 Series, Type 12, polastic side-mount level switch available from Manotherm

The Series TSS also features a 30 mA alarm output for external buzzer activation. Units offer a temperature range of -58° to 302°F (-50 to 150°C) with an accuracy of ±0.5% or better. It offers 34 programmable parameters to customise control functions. The temperature switch features a 3-digit red display, error and alarm messaging, and password protection.

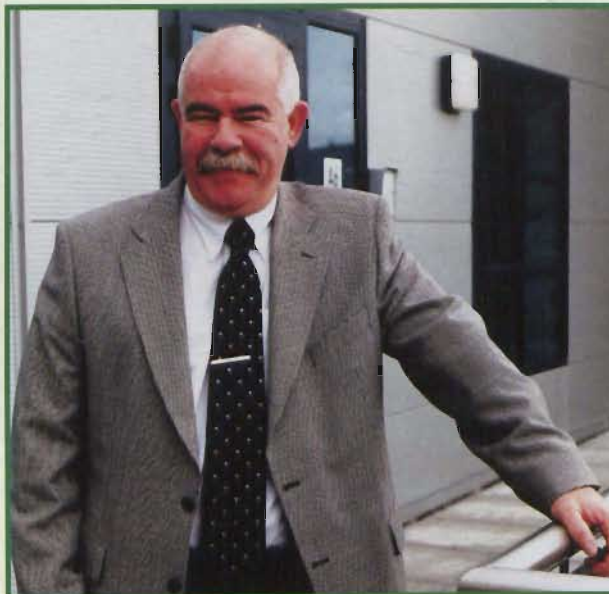
Contact: Bob Gilbert, Noel Walsh or Robert Gilbert, Manotherm. Tel: 01 - 452 2355; email: info@manotherm.ie

Core AC — Ultra Professional Yet Adaptable & Flexible

While relatively young in company terms (Core Air Conditioning was established in 1996) the combined knowledge and experience of company personnel represents something like 120 years. Moreover, the diversity and all-embracing nature of this knowledge base and experience means that virtually all possible permutations are catered for. Quality of service coupled with quality products from brand-leading names such as Carrier, Liebert Hiross and LG is the cornerstone upon which success to date has been achieved.

From the time Willis Haviland Carrier invented the basics of modern air conditioning in 1902, Carrier has been the world leader in the manufacture and sale of heating, ventilating, air conditioning, hvac systems and products.

Industry breakthroughs are commonplace for Carrier, AquaSnap Puron being one of the latest innovative developments to set a new industry benchmark. Based on the concept of the successful AquaSnap range, the new, more powerful, AquaSnap Puron covers capacities from 190kW to 760kW, and is available in cooling only or heat pump versions. It combines maximum efficiencies with environmental



Austin McDermott, Managing Director, Core Air Conditioning

responsibility.

With AquaSnap Puron there is no need for additional plant room space as all components are integrated within the hydronic module, the heart of the AquaSnap concept. Essentially, for installers there is just one "box" and one set of connections.

Liebert Hiross is also synonymous with high-performance air conditioning systems. A typical example is the unique Hirovisor concept which allows the user visualise and manage one or more installations of Liebert Hiross air conditioning units, superchillers and UPs, from one central point, the PC applications run.

The company has also developed a family of high-performance cooling systems, ranging from compact small footprint air conditioning units for networked and cellular telecommunications sites, to larger systems

for telecommunication switches and internet data centres.

LG Air Conditioning — the Korean air conditioning manufacturer who will produce something like 13 million units this year — completes the final cog in the Core portfolio. Its main base is in Chang Won, South Korea, but it also has plants in Turkey, India, Thailand, Vietnam, Brazil and Indonesia. In all it has a presence in 150 countries throughout the world and a global market share of almost 20%.

Apart from technical excellence, LG recognises the importance of air conditioning in interior design and has established a research centre in Italy to produce new styles. The renowned Artcool range is a prime example.

One of the latest introductions is the new Multi M multi-split system. This

energy-efficient system is suitable for comfort cooling-only or heat and cooling option in conjunction with LG's Art Cool or wall-mounted indoor units.

The outdoor units use MPS variable control which uses single-phase electricity with two compressors operating at 40% and 60%, rather than conventional ones working at 100%. This allows for energy savings of up to 35%.

All indoor units come with a hand-held infrared remote controller for temperature settings, mode selection, air circulation and fan operation.

Core Air Conditioning is ultra-professional in its dealings with suppliers and clients alike, yet somehow manages to do so in a friendly, flexible manner. Structured systems do not mean rigid practices. Indeed, Core's ability to adapt and change to devise the most appropriate solutions to suit individual situations is well known.

Individually, any one of the principals represented offers a myriad of air movement solutions. Taken together, they are a formidable armoury in satisfying clients' needs.

Contact: Austin McDermott, Core Air Conditioning.
Tel: 01 - 409 8912;
email: info@coreac.com

BJ Caraher — Brands of Distinction & Distinctive Service

BJ Caraher (Distributors) Ltd was established in Belfast in 1948 and has since grown to one of the most successful building services suppliers throughout all of Ireland. Focussing primarily on heating and plumbing, the portfolio is all-embracing and includes brands of distinction, known for their quality, innovative designs, and performance excellence.

While nothing like



Aquatherm shower valves

the original one-man operation in terms of scale and market penetration, the BJ Caraher of today still retains the same core trading values and philosophy. The original company ethos was to source and supply quality products, at competitive prices, and to be in a position to



Flamco unvented hot water equipment

deliver to customers on demand. Current Managing Director Aidan Vance and his team adhere rigidly to that principle.

Given the national scale of the business as it stands today — and the vast portfolio of brand-leading names represented — it's hardly surprising that the original 2500 sq ft Belfast premises has been replaced by a 64,000 sq ft modern warehouse and office complex standing on a 4.5-acres site located in Saintfield, Co Down.

Among the brands currently represented are:—

- Ideal Standard sanitary ware, baths, water fittings, shower valves, bathroom furniture;
- Dolomite sanitary ware;
- Aquatherm shower valves;
- Ramon Solar water fittings;
- Vasari bathroom furniture;
- Albion calorifiers, domestic cylinders and the Saturn Super Duty Aquapak;
- Imperial hot water towel rails;
- Matki shower enclosures;
- Flamco Brefco flue pipe, sealed systems equipment, unvented hot water equipment, pumps;
- Carron Phoenix stainless steel and coloured silk quartz sink tops;
- Müeller copper tube;
- Midland Stom water



BJ Caraher's new 64,000 sq ft warehouse and office complex which stands on a 4.5-acres site located in Saintfield, Co Down

fittings and accessories; — Trevi high-performance shower valves.

Critical to the growth, and continuing success, of BJ Caraher is the importance placed on establishing loyal and trusting relationships with customers and suppliers alike. The company is renowned for the strength of its trading partnerships which, quite apart from the efficiency with which they are conducted, also involve a bit of fun. Make no mistake ... BJ Caraher (Distributors) epitomises professionalism, yet somehow manages to



Trevi high-performance showers

do so in a manner that espouses open and warm inter-personal relationships based on sharing the benefits of each transaction.

BJ Caraher ... for brands of distinction and distinctive service

Contact: Aidan Vance, BJ Caraher (Distributors).

Tel: 048 - 9751 1071;
www.bjcaraher.co.uk



Ideal Standard Create square range

Mark Eire Specialises in Air Movement & Air Curtains

Mark BV is widely known and respected throughout Europe as a leading player in air movement technology (heating, ventilation and air conditioning). Its principal base is in Holland (60 years old in August 2005) but it has a wholly-owned subsidiary, Mark Eire BV, which has operated out of Coolea, Macroom, Co Cork since 1986.

Not surprisingly, the Mark brand is very strong in the Cork region and it is on the strength of its local market penetration that it has carved out a sizeable share of the national market.

For most of that time Michael Keane has been Mark's Area Technical Sales Manager. Working closely with local consultant engineers and mechanical contractors. The support and innovation of these engineers and contractors has driven Mark's production and R+D, which nowadays also extends to sustainable technologies.

An ability to retain staff for many years is a particular strength of Mark Eire, the experience, expertise and depth of technical know-how it represents proving an invaluable resource.

New products and

new applications are the lifeblood of any business. In Mark Eire's case this philosophy is taken to extremes with fully-qualified graduates continuously working on ground-breaking projects which are gradually brought to the marketplace. Particular emphasis is placed on life-cycle costs and eco-friendly features.

Mark also invests major sums in plant and equipment. The latest 2 million development programme resulted in all production, office and warehouse facilities being combined within the one, covered 65,000 sq ft complex. This makes for far greater quality control, more streamlined production efficiencies, and dedicated delivery schedules.

In addition to the product categories for which Mark Eire is well renowned, it also has a comprehensive range of air curtains. These can be summarised as follows:—

- AIR ONLY: AirA cV;
- LPHW : AirA c B;
- ELECTRIC: AirA cE;
- GAS: Mark GCE with 90° hood & 5-way louvres.

Regarding these air curtains (which can be exposed or over a false ceiling) they are available in four different lengths — 1m, 1.5m, 2m and 2.5m.

The AirA c series



The vast range of products available from Mark Eire

units are designed to give a high output and high performance. The AirA c over ceiling air curtain is ideally suitable for shopping centre lobbies where a slightly higher mounting height is required. The exposed unit is frequently used for loading bay doors. The discharge diffuser is adjustable, and all Mark air curtains are speed controllable.

There is also the Mark AirA p slimline ceiling hide-away air curtain. At only 270mm deep it is ideal for entrance doors and lobbies in banks, shops,

theatres and offices. The units come in 1m and 1.5m wide sizes with low-pressure hot water and electric heating coils. These units are also speed controllable.

Mark Eire air curtains offer excellent value for money. Instant quotes with full technical specification can be provided on receipt of door dimensions.

Contact: Michael Keane, Mark Eire Bv.
Tel: 026 - 45334;
Mobile: 086 - 252 8325;
email: sales@markeire.com

City & Suburban Projects

complete & under way



Opened last year by President Mary McAleese, the striking €12 million Glucksmann Gallery has already received international acclaim, including the Best Public Building at the Royal Institute of Architects of Ireland awards in 2005; the RIBA 2005 award in the European category; and the 2005 Project of the Year at the UK Buildings Services Awards. Architect was John Tuomey of O'Donnell & Tuomey architects with PJ Hegarty the main contractor.

In addition to the Glucksmann Gallery UCC has also opened the €17 million Mardyke Arena, one of the finest sports facilities in the country, and the vast Victoria Lodge student accommodation at Victoria Cross, with 335 rooms.

Glucksmann Gallery & Mardyke Arena, UCC

Trinity Court is one of the more eye-catching new residential developments in the city, with a waterfront setting overlooking the River Lee and stunning interior design. It is a six-storey development with 61 apartments and private underground parking, very convenient to the city centre. The one and two bedroom apartments were designed to provide comfortable and bright living accommodation with a landscaped communal garden and courtyard for all residents.

Trinity Court, George's Quay



Brideholm Apartments is a complex of 48 two-bedroom apartments of up to 900 sq ft each, located on the Commons Road in Blackpool, heading north toward Blarney, Mallow and Limerick from the city. Prices varied between €250,000 and €300,000, depending on the location within the complex and exact size.

The convenient access to both the city and countryside is protected in a gated, secure complex with 24-hour security cover. The apartments are nestled into a grassy hillside with landscaped green areas and gardens. Schools, shopping and other amenities are all on the doorstep. Each fully decorated apartment has a private balcony, as well as a fully fitted kitchen and en suite master bedrooms.

Architects were Daly Barry Architects of Bantry in County Cork, with construction by Coleman Brothers Developers.

Brideholm Apartments, Blackpool

More than three million passengers use the city's main bus depot at Parnell Place every year and the major €4 million refurbishment was long overdue. Included were a complete internal refurbishment of the two-storey building; a re-designed passenger concourse; more efficient bus marshalling area; new passenger information systems; complete upgrade of all passenger facilities, and construction of nine new bus bays. Approximately €500,000 was directed towards improved access for people with disabilities, older people, and those with young children. The striking design includes a new tensile fabric canopy feature at the front of the station. The structure was designed by John Clancy, CIE Chief Architect, and developed by Ridge Developments.

Bus Eireann Station, Parnell Place





et al. BS News

AIR CONDITIONING LTD

Unit A6, Centre Point Business Park, Oak Road, Clondalkin, Dublin 22

Tel: 01 - 409 8912; Fax: 01 - 409 8916;

email: info@coreac.com; Web: www.coreac.com



LG's Art Cool range
of designer air
conditioning products

**Liebert
HIROSS**



Refrigerant 407c
Dualfluid
Freecooler
Chilled Water
Upblow/Downblow
Dx — Water Cooled
Close Control Air Conditioning

Capacity 4kW to 100kW



Chillers
Heat Pumps
Packaged Rooftop Units
Minisplits
Fan Coil Units
Controls



Flexible and reliable
VRF system

City & Suburban Projects



This mixed €40 million six and seven-storey development took three years of involved negotiations to get the green light from the City Council. While anxious to give it the go ahead, they wanted to make certain it was sympathetic to its immediate surroundings, and the City Hall which is directly across the river from it. The result is another striking development with brown sandstone, and a blue curtain wall of glass and aluminium frontage, as well as a vertical frame of cream limestone to the most prominent corner of the structure. The open-plan layout is air conditioned throughout, with services in each area to the benefit of tenants. The ground floors have been earmarked for retail and banking uses. Architect was Tom Coughlan of Coughlan de Keyser with O'Flynn Construction the developer.

5-6 Lapp's Quay

Located on Anglesea Street, in a location just a few hundred yards behind City Hall, and near the city's Garda Headquarter building, this is a five-storey commercial and office building. It houses the Anglo Irish Bank Corporation's relatively-new banking halls on the ground and first floor, and comprises third-generation office space, with air conditioning and secure underground car parking. Aside from the Anglo Irish Bank areas, there is office space of 10,823 sq ft on the upper three floors.

Anglo Irish Bank House, Anglesea Street

The new terminal development at Cork Airport is valued at something like €150 million and is due for completion this month. With Jacobs Engineering serving as both the architects and engineers for the project, it involves the construction of a new terminal building and ancillary works to increase capacity from 1.1 million passengers to three million passengers per annum. The terminal building utilises glass, steel and timber materials to maximise the effects of light and space under a single-span curved roof structure. There are three passenger air bridges, a new baggage handling system, an energy centre, a new fire station, a 600-space multi-storey short stay car park, and a 3,250-space surface car park. Additional works will include new access roads, landscaping and signage, relocation of existing facilities, etc, within the already-established 50-acre business park.



Cork Airport New Terminal



This development, valued at about €100 million, has 100 metres of river frontage with stunning views. Essentially, it is the first scheme within the confines of the City Docklands Project, which runs further to the east of the city along the river.

The City Quarter development comprises something like 100,000 sq ft — 20,000 for retail/80,000 office — and has underground car parking for 275 vehicles. Full occupation is expected by summer 2006.

The adjoining Clarion Hotel is already open. This striking six-storey development has a splendid glass-topped atrium and 200 rooms, along all the other facilities commonplace in a hotel of this calibre.

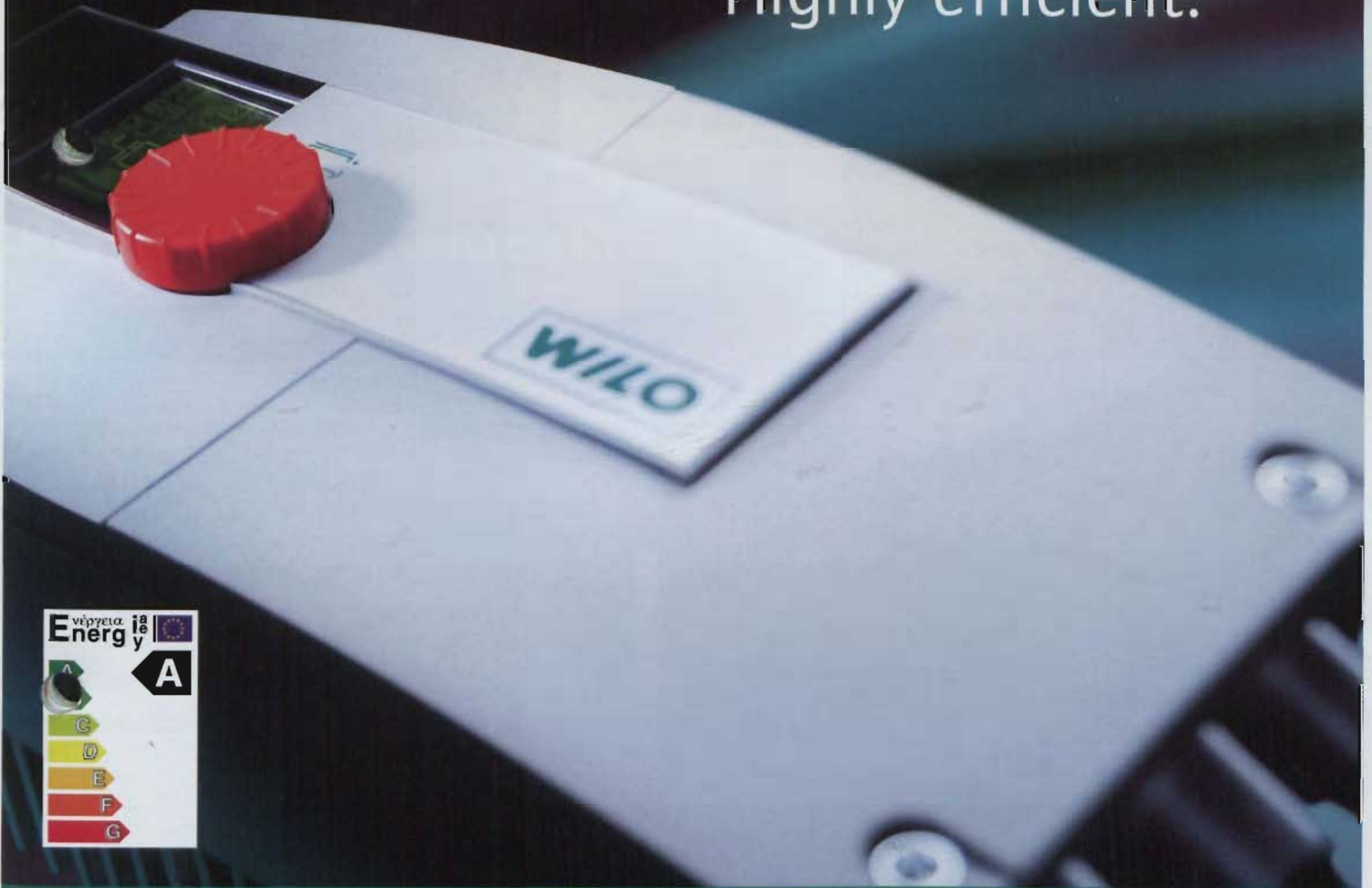
Included in the project design is the city's first boardwalk, while there is also a sky bridge across to the international conference centre, located on the first floor of the adjacent building and second part of the development.

Architect was Neil Scott of Scott Tallon Walker with Howard Holdings the developer.

City Quarter & Clarion Hotel

completted & under way

For automated building services.
Intelligent bus controller.
Suitable for heating / air conditioning
from -10 up to $+110^{\circ}\text{C}$.
80 % energy savings.*
Highly efficient.



Wilo-Stratos high-efficiency pump.

The Wilo-Stratos is the first high-efficiency pump in the world. Thanks to its innovative ECM technology it permits energy* savings of up to 80 % compared to standard pumps. This applies both for heating systems and for air-conditioning and cooling systems. In conjunction with its intelligent bus controller this makes it the ideal solution for building automation. Ingenious? We call it Pumpen Intelligenz.



Pumpen Intelligenz.

* Electricity for the heating / air-conditioning pump.

City & Suburban Projects

completed & underway



Developers Howard Holdings were recently granted planning permission to develop a Comfort Inn Hotel for Choice Hotels on this, already virtually completed, mixed-use site. Anchor tenants for the new complex will be O'Callaghan Properties. The mixed-use development comprises apartments and offices, but also houses an art gallery.

Architects were Reddy O'Riordan Staehli Architects (RORSA).

Lavitt's Quay

Nemo Rangers' new Trabeg Sports Centre is claimed to be the finest GAA sports club complex in the country. There are two grass pitches, which can be used all year round, a massive all-weather pitch area that can be divided into four, five-a-side, sized pitches, and a 1,000 sq m sports hall with an artificial grass surface. There are 12 changing rooms and 72 showers that will receive hot water powered by the 42 solar panels using the heat of the sun shining on the pitches.

The 23-acre development will allow up to 600 people to use its facilities at any one time. The modern gym will be one of the main attractions for the public, with the latest equipment and competitive membership fees. On the social side, there are two bars and a function room, as well as a private dining room.

Nemo Rangers Trabeg Sports Club



A €20 million mixed-use development less than 100 yards from St Patrick's Bridge. Another superb new complex, it comprises 58 two-bedroom apartments on Camden Quay, with five retail units and space for a large restaurant, plus underground parking. The six-storey building is said to have enjoyed a clear run through planning with City Manager Joe Gavin's full support.

The apartments range in size from 603 sq ft, to 936 sq ft, and have been designed by JE Keating & Associates, Cork. There is approximately 3,295 sq ft of ground floor retail space, and restaurant space of about 1,820 sq ft, all of which fronts on to the River Lee.

Directly across the river is the Cork Opera House and the Emmet Place plaza, each refurbished in recent years and now both part of a striking setting just over the Christy Ring Bridge.

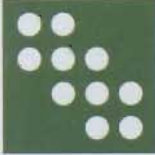
Camden Wharf

Already a landmark building in Cork, the headquarters of the Cork County Council on the outskirts of the city has been completely refurbished. It is due for completion in November of this year but is already partially in use.

The €48.68 million project was designed by Shay Cleary Architects and includes a new three-storey extension providing a concourse and new council chamber and associated accommodation; a six-storey office extension with part basement area of 6,568 sq m; the general refitting of the existing 16-storey building; replacement of existing glazing with a new thermally-broken glazing system for the entire building; and glazed pavilion at rooftop level.

County Hall





Irish Metal Industries Ltd

25 Spruce Avenue
Stillorgan Industrial Park
Blackrock
Co Dublin

Sales

Tel: 01 - 295 2344 / 01 - 295 2137
Fax: 01 - 295 2163
email: info@irishmetalindustries.com
web: www.irishmetalindustries.com

IRISH METAL INDUSTRIES **EXTENSIVE PRODUCT RANGE**

25 YEAR GUARANTEE



City & Suburban Projects

While very much neglected and maligned over the years Blackpool is now emerging as a very desirable location from both a business and residential perspective. Indeed, City Manager Joe Gavin reportedly intimated that Blackpool will become one of the top residential addresses in Cork within the next 20 years.

The Blackpool Shopping Centre, opened in 2000, has enjoyed considerable success and this new €200 million development — comprising mixed-use retail and office space on an 11-acre site — will undoubtedly do likewise. Something like 450,000 sq ft of offices will be available on completion of the four-storey complex, along with 28 apartments. The proposed new rail station at nearby Kilbarry will enhance the location still further, and lead to further development. Additionally, the business community on the nearby Mallow Road is set to grow even more as another 21 business and technology units are planned for the area. Atlas Developments have been given the green light to develop hi-specification units on the site of a former water tower. The development will be beside the Blackpool Bowl and Leisure complex, which is currently under construction. The units will vary in size and be accommodated in 2,292 sq m of space on three floors of the building.

There are also a number of other industrial and residential prospects currently underway along the Mallow Road.

Blackpool Commercial Park



Mahon Point is one of the major success stories of recent Cork development. Purchased by O'Callaghan Properties in the 1990s for €50 million, this ideally-located site is now home to a massive €500 million development.

Phase 1 of the extensive shopping centre is now all but completed with virtually all of the units taken up. However, the remaining phases in the shopping complex are unlikely to be completed until 2008, when it is envisaged that it will be one of Europe's top shopping centres.

It was billed as the most adventurous retail development ever undertaken in Cork, and covers 111 acres in total. The centre boasts more than 40 individual retail outlets, restaurant and food outlets, and a 13-screen cinema. Meanwhile, the new year will see work commence on the 18-month development of the Hilton Hotel within the same overall Mahon complex, along with work on 100,000 sq ft of office space, and the proposed new leisure centre. There are also proposals to develop a 6,000-seater convention and entertainment centre.

Mahon Point

Eastgate Business and Retail Park, designed by architects Dennehy Design and developed by O'Flynn Construction, consists of more than 48 ha (about 120 acres). The site comprises retail warehouse units of between 1,000 to 6,000 sq m; office units of 400 to 2,000 sq m; industrial/technology units of 170 sq m; high-technology production facilities of 2,400 sq m; and more than 30,000 sq m (320,000 square feet) of floor space already completed and occupied.

EastGate is a mixed retail/commercial, business/industrial park, with its own amenities, crèche, restaurant, etc. On the other side of the park a number of new residential developments, including the 60-house Castlewood estate, are under construction, while the prestigious Little Island Golf Club is also close by.

On the other side of the entrance to the 120-acre business park is the location for recently-approved seven-car automall, with seven separate car dealerships.

Eastgate Business & Retail Park, Little Island



WE GO FURTHER



A NEW WORLD IN PLUMBING



Wavin Pex Approved to BS7291-1 2001 Class S has Full Irish Agrément Board Approval.



Wavin Pex is recommended for use with Brass Compression Fittings to IS239 and Tectite Push Fit Fittings.



Wavin Pex is available in Irish dimension 1/2", 3/4", 1" in Coils and Straight Lengths



Suitable for Underfloor Heating applications



Wavin Pex is available in all leading Builders and Plumbers merchants nationwide.

wavin PEX

We Go Further

WAVIN IRELAND, BALBRIGGAN, CO. DUBLIN. TEL: 353-(0)-1-8020200.

Published by ARROW@TU Dublin, 2005 FAX: 353-(0)-1-8415555. www.wavin.ie E-mail: ie_info@wavin.com

City & Suburban Projects

completed & underway



O'Flynn Construction has all but completed the massive €400 million redevelopment of the former 90-acre army barracks in Ballincollig. Shopping and commercial space sits alongside nearby residential properties in what is an effective restructuring of Ballincollig town centre. The first phase of the development, the shopping centre with 34 units, will open this month with work on the adjacent 18-bed boutique hotel already underway. The remaining phases in the scheme include 170,000 sq ft of office accommodation; a large international hotel; and a 50,000 sq ft retail/ office mixed scheme. The final aspect of the development will be 450 residential units which have already been granted planning permission. The full development is expected to be completed in late 2007.

Ballincollig Town Centre



This is one of the most ambitious residential projects ever undertaken in Cork. When completed, the €150 million development will include eight residential blocks, each with 39 luxury apartments. There will be a total of 431 units in all, made up of a mixture of one-bed apartments right up to five-bedroom detached houses. The 41-acre site includes 18 acres of mature landscaped parkland to add to the tranquillity of the shoreline setting. The development is by McCarthy Developments with Project Architects acting as the designers on the project.

Jacob's Island, Ballinure

This is an exclusive waterside development of apartments off Rochestown Road on the outskirts of the city. The scheme, with a mixture of one and two bedroom apartments and three bedroom penthouses, consists of 161 luxury units arranged in nine blocks. The site is surrounded by water on three sides while a mature woodland and bird sanctuary buffers the site from the Rochestown Road.

A courtyard consisting of nearly four acres of south-facing landscaped gardens covers the secure underground car parking while the attractive linear park with paved walkways is complemented by a quayside walkway offering stunning views of Lough Mahon and the Douglas Estuary.

Work is ongoing, though some apartments are already occupied in the completed phases.

As with Jacob's Island, development is by McCarthy Developments with Project Architects the designers.

Harty's Quay

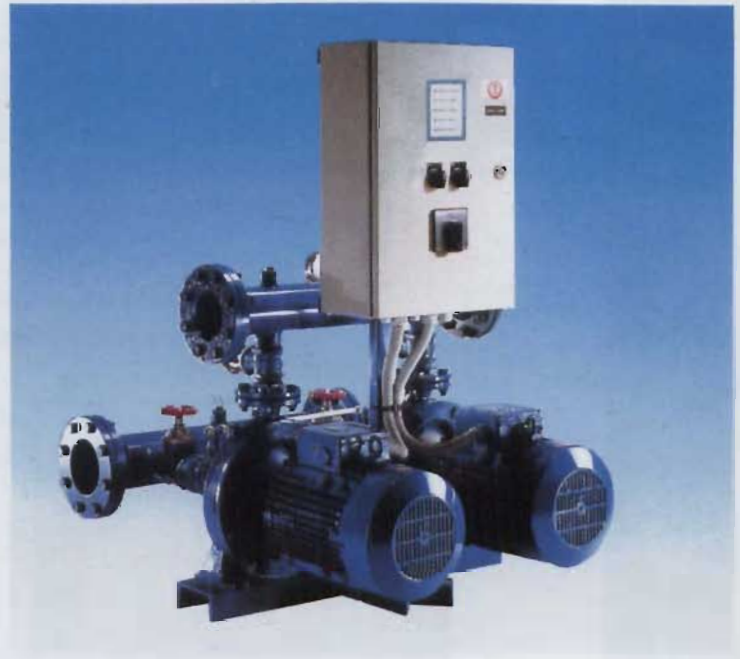


Patrick's Hill



City Hall

We Keep the Pressure On !



 **calpeda**
CREATIVE TECHNOLOGY

Calpeda Pumps (Ireland) Ltd

Estate House, Dunshaughlin, Co Meath

Tel: 01 - 825 8212 Fax: 01 - 825 8215

City & Suburban Projects

completed & underway

Coppinger Court, Popes Quay

This award-winning scheme resulted in 43 modern apartments, a glass showroom, and pub/restaurant while still retaining the network of pedestrian-width streets and lanes which criss-cross the steep site and characterise the surrounding region. The five existing buildings to the forefront were also refurbished in a manner which epitomised the same ethos and re-affirms the building style of the locality. Architects were Magee Creedon Architects.

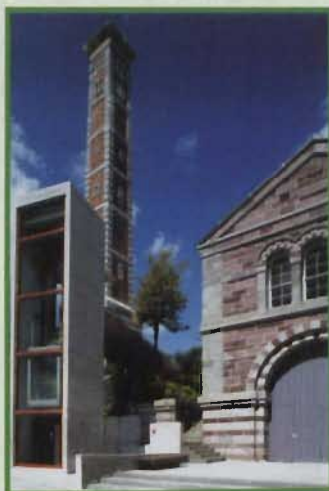


'English Market'



The manner in which the original features, concept and unique feel of the 'English Market' have been retained, despite refurbishment and modernisation, is an example which every planning authority in the country should note.

Lifetime Lab, Lee Road



The brief for the Lifetime Lab project involved the conservation and adaptation of the complex of 19th-century buildings and historic precinct which formerly served as the Cork Waterworks for new use as education spaces and displays on the themes of the environment, sustainability, offices and meeting rooms.

Cork Opera House



The Cork Opera House is a landmark building and one which has occupied this high-profile site for many years. Despite considerable renovation and modernisation, it still retains its historical significance.

The Court House



The Cork City and County courthouse was originally constructed over 200 years ago. Destroyed by fire in the late 1890s, it was rebuilt and reopened in 1897 with just the external facade retained. Phase 1 of the most recent refurbishment programme commenced in 1997 and involved the roof and external stonework, while Phase 2 — covering the interior of the building — began in 2003 and concluded at the beginning of this year.

Ventilation of Car Parks Using Dirivent-Nozzle Technology



Whatever your requirements, Fläkt Woods (Ireland) can provide Local Expertise with Strong Global Back-up.

Fläkt Woods is a world leader in the technology of air movement. Our knowledge and experience of ventilation applications is now being applied to more innovative

solutions for enclosed car parks. Fläkt Woods has rapidly become an industry leader, offering tailored solutions for projects around the world.

Fläkt Woods (Ireland) Ltd., Unit 1 Broomhill Business Park, Tallaght, Dublin 24
t +353 (0) 1 463 4600 f +353 (0) 1 463 4650 w www.flaktwoods.com

Fläkt Woods (Ireland) Ltd., Unit 16 Eastgate Way, Eastgate Business Park, Little Island, Cork
t +353 (0) 86 823 3379 e john.kelly@flaktwoods.com w www.flaktwoods.com

Standard Control Systems Commits To Cork

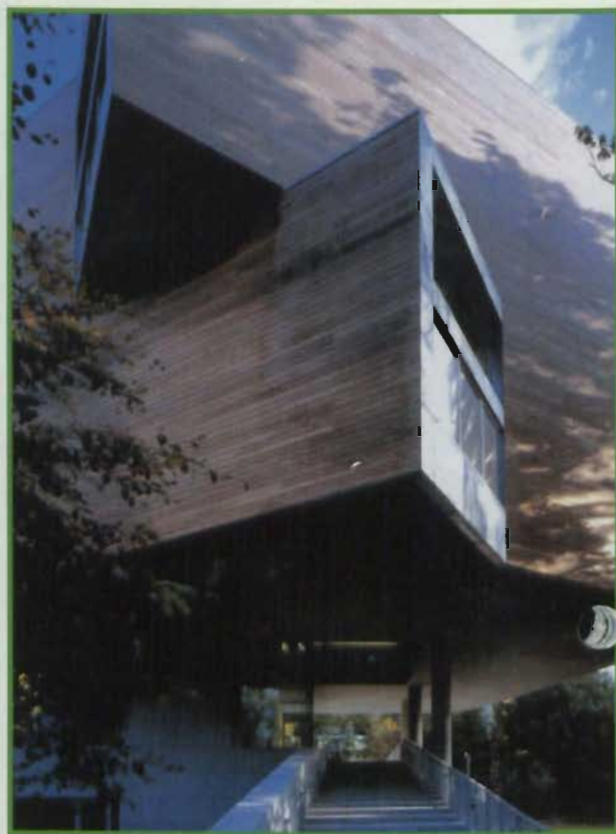
Standard Control Systems (SCS) is one of the longest-established and most successful building management systems providers in the country. Over the years it has captured a significant market share, especially in the Dublin area, on the back of its strong association with leading controls specialist Trend. That success is now being consolidated in Cork city and county regions on the strength of its growing reputation and, more importantly, because of its dedicated, Cork-based, office.

Centrally located in Penrose Wharf, senior engineers John Reddin and David Garvan are ideally placed to liaise with local industry, architects, consultants and developers to devise appropriate, tailor-made building management systems solutions for each particular project.

To date SCS has

been involved in some of the largest and most prestigious projects ever built in Cork. They have used the excellence of Trend to meet the complex requirements of all manner of project, including the award-winning Glucksmann Gallery at UCC; the hotel and leisure centre at Fota Island; and the new terminal at Cork International Airport where the cutting-edge web-browser-based Trend system has been installed.

Cormac Walsh, SCS Managing Director, says: "We now have a locally-based team of totally-committed people dedicated to providing our Cork clients with a level of service heretofore unknown. Put simply, we want to continue to be the best in the business, not just in Cork city and county, but throughout all of Munster". To achieve that objective SCS retains a team of highly-qualified engineers, all of whom undergo continuous



The "timber treasure-house in the tress" of The Lewis Glucksmann Gallery, Cork

technology updates, seminars and educationals to keep them fully *au fait* with developing trends. In addition, it is now concentrating, more than ever, on improving the diversity of its products and services. Its relationship with Trend is very significant in this respect and together they have devised innovative and pioneering solutions for many projects in Ireland. SCS also prides itself on the partnership approach it adopts with its customers. It is renowned for working with consultants and contractors to get the job done and for ensuring the technical integrity of the project above all else.

Furthermore, it has carved out quite a niche in the area of design-and-build type projects where it works closely with consultants and contractors to compete for specific projects. They are also well versed in carrying out BMS/controls-related workshops with consultants, where the strengths of the systems as they are today can be demonstrated, and a methodology gone through on the appropriate selection and utilisation of controls devices.

Contact: Standard Control Systems (SCS).
Tel: 021-455 5671;
www.standardcontrol.com



The Lewis Glucksmann Gallery at UCC, Cork

key suppliers

QPL — Your Guarantee of Performance & Reliability

Quality Plastics was established in Cork in 1970 and has been committed to producing quality plastic goods for the construction, agriculture, plumbing and heating sectors throughout Ireland for the last 35 years. State-of-the-art manufacturing plant and equipment, coupled with advanced research and design procedures, have ensured that the company has maintained internationally-approved quality certification accreditation for its products.

It is against this background that QPL has consistently developed innovative products and systems which are designed to cater for the ever-changing needs of the marketplace.

A typical example is the manifold plumbing concept whereby each radiator or water connection is fed by its own dedicated line which runs from a central manifold. The Qual-PEX-in-Pipe system makes use of an outer protective conduit pipe into which the Qual-PEX plumbing/heating pipe is pre-installed. Developed for concealed installations within structures of either the floor screed

or the walls, the system eliminates joints within structural elements of the building.

Should any damage occur to the Qual-PEX pipe, any leaking water will be conducted in a controlled manner along the conduit pipe, back to a visible location either at the manifold or the radiator/appliance. Other benefits include quieter water flow; more balanced water pressure; a reduction in the number of fittings required; faster installation; and water and energy savings.

Moreover, the Qual-PEX-pipe-in-pipe system is guaranteed against any material or manufacturing defect for a period of 25 years under normal service conditions.

Another innovative development is the QPL Cosy Home conservatory underfloor heating kit. Suitable for tiles, timber or carpeted floors, the Qual-PEX underfloor heating system is perfectly suited to a single area extension or conservatory up to 15



Qual-PEX Underfloor Heating available only from QPL

sq m in floor area. It is designed to link into an existing radiator heating system or, alternatively, it can be run as a separate system providing the benefits of an efficient and cost-effective heating system.

This type of heating system may be used in conjunction with oil or gas-fired boilers, or even a geo-thermal heat pump system.

The kit system is all-embracing and includes:—

- Pre-assembled QPL UFH control unit, including thermostatic mixing valve;
- Pump, services valves, mounting bracket and plastic cover box;
- A single digital room thermostat,

including 3m of cable;
 — 100m of 15mm Red Qual-PEX barrier pipe;
 — Instruction booklet. User benefits include comfortable even temperature throughout; healthier environment; low maintenance; independent temperature control for conservatory area; lower operating costs; and greater interior design flexibility.

With such a strong background in design excellence and product development, QPL has carved out a significant market share within the Cork region. Being locally-based, it has especially strong relationships with local industry, consultants and contractors, and is currently working closely with these trading partners to devise still more innovative solutions and systems for newly-emerging requirements.

Contact: Karen Horgan, QPL.
 Tel: 021 - 488 4700;
 email: underfloor@qpl.ie



Automix controls by QPL are the Automix 20, Automix CT and the Automix 30Q. All are pre-wired for easy installation

Grundfos — Total Pump Solutions For All Applications

Grundfos is one of the world's leading and most successful pump manufacturers with a history of constantly introducing innovative pumps and pumping systems that satisfy the markets' needs for effective, reliable, energy-efficient solutions.

Established in 1945 by the late Poul Due Jensen, annual production is now in the region of 10 million pump units with circulator pumps (UP), submersible pumps (SP) and centrifugal pumps (CR) being the three major product groups. Today, Grundfos is the world's largest manufacturer of circulator pumps, covering approximately 50% of the world market for these pumps.

A commitment to quality is evident at every stage in the development process, from research and innovation right through to design, selection of materials, production methods, packaging and customer delivery. Grundfos products are sold and serviced primarily through a network of Grundfos-owned national subsidiary companies where first-hand knowledge of local market trends and conditions make for the best possible service for customers.

Grundfos Ireland is a typical case in point. Established in 1984, the company has captured a significant market share across all pump market segments. Its circulator pumps are used extensively throughout the country for heating, ventilation and air-conditioning in domestic houses, office buildings, hotels, etc.

In industry, Grundfos pumps are used in food processing, pharmaceutical plants, the drinks and alcohol sectors, as well as in the area of plant maintenance and OEM products.

In the water-supply and waste-water segment Grundfos offers a wide range of reliable pumps for irrigation, greenhouses, and for municipal, private and industrial water supply, as well as sewage applications.

Apart from the product portfolio, the company's most

important resource is its employees, their experience, know-how and commitment. Grundfos makes substantial investments in education and training with all staff constantly undergoing regular technical seminars and updates on new products, developing technologies, and new pumping system concepts.

In order to maintain its leading position, Grundfos attaches great importance to R&D and in 1990 the Grundfos Technology Centre was inaugurated. In 1993, Development, Design and Product Management moved into a newly-built Innovation Centre.

Among the latest innovative products to come on stream is the extended TP range which offers low installation costs, low energy-usage costs, low maintenance and service costs, and high



Grundfos TP in-line pump

reliability.

Grundfos in-line TP pumps are ideal for commercial building services, industry and water treatment for applications such as heating, air conditioning, pressure boosting, waste water and building management systems.

Another innovative product is the new Grundfos Alpha Pro. This range is a direct result of extensive research into the development of low-energy pumps which is now a priority for all leading pump manufacturers. Indeed, under a new energy-rating scheme subscribed to by all the major industry players, the Alpha Pro range bears the European "A" energy rating, indicating exceptionally-low energy usage.

Contact: Gordon Barry, Grundfos (Ireland).
Tel: 01 - 408 9800;
email: info-ie@grundfos.com



Alpha Pro+ is rated to bear the European "A" Energy Label

Be Amazed By MHI 4th Generation Inverter Multi System

Mitsubishi Heavy Industries has been manufacturing air conditioning systems for over 40 years. The range extends from small systems of 2.5KW cooling/heating to large modular systems for commercial buildings. 3D Air Sales Irl Ltd is the MHI distributor in Ireland and it has just introduced the latest addition to the range, the new 4th generation VRF inverter R410A multi-system. MHI already has a strong presence in the Cork region but now, with this new introduction, Michael Clancy and his colleagues in 3D Air Sales expect to win an even larger share of the new projects coming on stream.

This latest MHI development in VRF technology delivers high-efficiency, high-performance cooling and heating, together



The FDCA140 compact VRF outdoor unit is ideal for small applications



The new 4th generation VRF inverter R410A multi-system available from 3D Air Sales (Ire)

with additional features which make for easy application, operation and control, despite the advanced nature of the system.

For instance, all standard remote controllers now have 7-day/24-hour programmable on/off timer, with different temperature settings for each operational period. It is also possible to access operational data from the remote controller, making life easier for the service engineer and site manager.

Compressors are all inverter type ... there are no high-start currents from fixed-speed compressors. The footprint size is also compact, reducing installation space and minimising costs where steel decking is required. For instance, the 68kW model footprint is only 720mm by 1350mm.

The FDCA140

compact VRF outdoor unit is ideal for small applications. It is pre-charged for up to 100m of pipe length, thereby reducing installation time and costs.

The larger outdoor units are a completely new design, with the compressor compartment separated from the airside. This reduces noise break-out and simplifies service and maintenance operations.

Reliability is considerably improved, having one or two inverter compressors running in tandem. This helps to contain the oil within the compressor, significantly improving long-term reliability.

The new high efficiency is derived from the new design of compressors, heat exchangers and refrigerant monitoring devices. The "fuzzy logic" technology constantly monitors

and controls refrigerant temperatures and pressures throughout the system, and ensures the correct amount of refrigerant is available at each indoor unit to meet the cooling or heating requirements of the internal areas.

On the KXR4 3-pipe systems, energy is recovered from the warm areas of a building, and then utilised to provide heating for cool areas, thus reducing running costs.



The GHP is a VRF natural gas-powered system which behaves in a similar operational mode to conventional electric powered VRF systems

Additionally, the control packages have been extended to include PC Windows-based control and monitoring, new touch-screen control, and Gateways for Lon and BACnet connection.

Contact: Michael Clancy or Darren Lowndes, 3D Air Sales Irl.
Tel: 01 - 462 7570;
email: 3dair@eircom.net

The South Mall could yet be the location of a new hotel for the city centre on a site currently lying derelict, and only a short distance from the internationally-renowned Imperial Hotel.

The new 116-bed hotel has been given the green light by Cork City Council, to be spread over four and five storeys on a 8,098 sq m site joining Beasley Street, Parnell Place and the South Mall.

It will boast a ground-floor hotel bar, dining area with function room, basement spa and health club, and will be serviced by two ground-floor parking levels. To facilitate the new hotel, the development work will include the demolition of existing site structures with the facades of 93 South Mall and 17 and 18 Parnell Place being retained.

The proposal is by the Corbett owned Pitwood Ltd, who have also just completed a sizeable new mixed-use development located near Anglesea Street, incorporating student housing and offices.

South Mall Hotel



This €80 million apartment and mixed use development is located on the eastern edge of the city, on Water Street and Lower Glanmire Road, near Tivoli. To be developed for the client, Werdna Ltd, it was designed by Murray O'Laogaire Architects.

The site area is 1.6217 hectares (four acres) and the revised plan envisages 304 apartments, a business centre, crèche, shops and cafés, with parking for nearly 500 cars.

The site would form part of an overall waterfront development zone that links back to the Kent Railway Station by means of future redevelopment of Horgan's Quay.

Completion date: revised plans were submitted in February 2005, with an outcome still awaited from Bord Pleannala.

Water Street Mixed-Use

O'Flynn Construction was granted permission for the superb, 17-storey, mixed-use development on Eglington Street, which is set to take over from County Hall in Cork (itself going through a €60 million overhaul and standing at about 60 metres with 14 floors, just higher than Connolly Hall in Dublin), to be the tallest building in Ireland, at some 70 metres.

The development is located on the former An Post sorting office site, beside the garda headquarters. It will be office block and retail use in the main, and is designed by Wilson Architecture. Sizeable green areas will surround 222 apartments, five retail units, seven offices, a crèche, gym and 553 parking spaces.

The decision by the City Council to give the development the green light is seen as hugely significant in the context of how and where structures in and around the city can now progress, especially given a plan of similar height on Water Street was initially rejected. Cork is now upwardly mobile!

17-Stories High at Eglington Street

This site at Horgan's Quay is owned by the CIE, who will be developing the 17 south-facing riverside acres, as announced in the summer this year. The commercial development is estimated to be valued in the region of €500 million.

There will also be an upgrade of Kent Station as part of the Horgan's Quay development, where a new Bus Eireann station will also be built, providing an integrated travel centre for public transport users in Cork city.

The Horgan's Quay development will be a mixed-use scheme, covering residential and commercial uses, to be developed by Manor Park Homes, with an application for planning already made. The scale of the regeneration will transform the area and bring to life a prime location in the city.

Irish Rail plans to re-orientate Kent Station away from the Glanmire Road to a new entrance facing the new development on the quay and the city centre, enabling improved access to the city centre, and a strong integration of rail and bus services.

A facility of 3,000 sq m is planned at Kent Station, comparable in size to the main Heuston Station in Dublin, to include a new ticket sales office, a new left luggage area, toilets, improved passenger concourse areas, mobility-impaired facilities, and improved retail facilities.

Cork Kent Station & Horgan's Quay



Modular Air Handling Units

- Full thermal break units tested to Class TB1
- Full stainless steel welded HEPA frame
- All units are Eurovent certified
- ATEX certified units also available



Centrifugal Water Cooled Chillers

- Cooling capacities ranging from 800kW to 8500kW
- Engineered for maximum efficiency
- Variable speed drive improves the performance and can generate an average of 30% annual energy savings



York ACR,
Unit 19, University Hall Industrial Park, Sarsfield Road, Wilton, Cork
Tel: 021 - 434 6580 Fax: 021 - 434 6586

Website: www.york.com



Consolidated Pumps Ltd — Perfect in Pump Technology

Celebrating 33 years of service to Irish industry

Consolidated Pumps Ltd is one of Ireland's foremost pump solution providers with a portfolio of leading-brand principals including Flowserve, DAB, Fristam, Bornemann and Tsurumi. The composition of the portfolio is designed to ensure that all pump requirements are catered for, including industrial water and chemical and pharmaceutical processes; sanitary pumps for the food, brewing and beverage industries; construction and effluent; site-dewatering, handling liquids with solids in suspension; OEM requirements and domestic applications.

When first established in 1972, Managing Director Roy Tolan's objective was to provide cutting-edge pump technology supported by technical back-up from qualified, experienced personnel. This dual approach is now the recognised hallmark of Consolidated Pumps Ltd.

The result is an unrivalled service which delivers tailor-made pumping solutions across all market segments. Customised packages include the pump, motor and anti-vibration base frames. Comprehensive after-sales service support and ongoing preventative maintenance programmes are also provided.

The strength in depth is particularly important for demanding critical areas of applications. To assist in this process computer technology has been installed with the assistance of Flowserve to handle pump selections and provide full hydraulic and electrical data with each quotation. The computer software is updated every month from Philadelphia, USA.



Roy Tolan, Managing Director,
Consolidated Pumps Ltd &
Consolidated Pumps UK Ltd

Dedicated Personal Service

To further enhance and strengthen the service provided, Consolidated Pumps Ltd clients can now contact all personnel direct.

Details are as follows:—

Consolidated Sales —

Odran O'Connor, Tel: 464 3307;
Scott Ribey, Tel: 464 3309;
Chris Dalton, Tel: 464 3300;
Raymond Tolan, Tel: 459 3471;
Michael Hunt, Tel: 464 3304.

Consolidated Service —

Andrew Tolan, Tel: 464 3302.

Consolidated Marketing —

Carol Davis, Tel: 464 3305.

Consolidated Accounts —

Aisling Brady, Tel: 464 3303;
Nicola Lieghio, Tel: 464 3308.

Consolidated Secretary —

Maria Fleming, Tel: 464 3306.



Consolidated Pumps Ltd.

Knockmeenagh Industrial Estate, Newlands Cross, Clondalkin, Dublin 22.

Tel: 01 - 459 3471 Fax: 01 - 459 1093

email: info@consolidatedpumps.com

www.consolidatedpumps.com



The DAB Active System is a typical example. Incorporating a choice of six specific pump solutions for controlling water, this range of automatic lifting units is suitable for domestic use, small systems for civil, agricultural and industrial use, washing systems and hobby applications.

The six options comprise three automatic, self-priming centrifugal pumps and three horizontal multi-stage centrifugal pumps with protection level IP44 (IP55 on the terminal board) and certified to Insulation Class F. Operating pressures vary, as do the pump bodies which are either stainless steel, plastic or cast iron. Key benefits of the new Active System are constant pressure; compact-sized units; maximum reliability; automatic reset; and adjustable starting pressure.



et al.: BS News

DAB Super Silent Benefits

- Constant Pressure
- Silent Running
- Reduced Running Costs
- Reduced Water Consumption
- Compact size (Expansion tanks are not necessary)
- Reduced maintenance
- Protection against operation without water

Japanese technology and reliability is the core characteristic of the Tsurumi pump range. Committed to research and development, new products are constantly coming on stream, making them world leaders in construction and sewerage applications.



Fristam Shear Pump:

This compact framed unit requires very little space to operate fully, even inline, and is easily integrated into existing systems and processes.



Bornemann SL Pumps: Pumps for pulsation-free production of sensitive medias. Strong design with little maintenance.



Flowserve LNN Pump: The Flowserve LNN is an axially split, double suction impeller and volute combinations resulting in quiet operation, low NPSH requirements, and high efficiency operation.

City & Suburban Projects

With the Irish Examiner and Evening Echo print works set to relocate to Mahon, and the editorial sections of the papers to locate at the City Quarter on Lapp's Quay, O'Callaghan Properties is set to develop the existing Thomas Crosby Holdings (TCH) site at Academy Street in the heart of the city.

The project is due for a Christmas 2008 completion, the redevelopment costing €300million and creating 200,000 sq ft of retail space. It will run from Academy Street to Paul Street Shopping Centre (itself to be refurbished), through Guys Building, along a newly-pedestrianised Cornmarket Street, and into North Main Street Shopping Centre.

There will also be up to 30,000 sq ft of office space with an application also to be lodged for 100 apartments. Owen O'Callaghan is aiming for a November 2006 construction start date, once existing occupiers have been relocated.

TCH Site, Academy Street



ABK Architects won the competition to design the new Civic Offices for Cork City Council. The project consists of 9,200 sq m (90,000 sq ft) of naturally-ventilated office accommodation and support facilities for the Council, together with underground car parking.

It is designed as an independent building that engages the existing Town Hall, built in 1932, to form a cohesive civic office complex. The project incorporates a number of advanced environmental control systems, including an exposed-concrete, chilled ceiling that makes use of ground water to cool the building and wind-assisted forced ventilation using innovative vent towers. The highest environmentally acceptable systems will include heating sourced from underground thermal springs.

The contract, worth in excess of €30 million, was awarded to the Cleary Doyle Group following a public tender process.

The new buildings will occupy the area where the City Hall car park and the Old Eglinton Street Baths originally stood. It will feature a glass and stone frontage with a floor-to-ceiling atrium in the reception area.

Civic Building Works

Developer Owen O'Callaghan wants to develop a €30 million concert and event centre at Mahon. Significantly, there was support for the project from Lord Mayor of Cork, Cllr Deirdre Clune. There had been suggestions that City Hall officials may hold a preference to locate such a development at Horgan's Quay, so the Lord Mayor's public words of support shouldn't be underestimated in their possible importance.

The proposal is for a 6,000-seater centre, and the Mahon site will have to compete with the convenience of the location at Horgan's Quay, particularly with its rail and bus links to the rest of the county and country.

Tourism chiefs and hoteliers located in Cork have long sought such a venue.

Concert & Event Centre, Mahon



The Cork Webworks to be developed by Howard Holdings, will provide some 5,000 sq m of prime office space on a historic site located at the gateway to the Docklands of the City. Extensive communications and computing facilities, technologically advanced meeting rooms, a broad range of office types and sizes, restaurant and informal meeting spaces will be complemented by service-orientated reception services, reliable technology support, and optional on-site car parking.

The façade will employ high-tech materials carefully blended to be in harmony with the protected structures on the site, and will be located adjacent to City Hall.

Webworks

The Health Service Executive has confirmed that the proposed new Accident and Emergency Department at Mercy University Hospital is to go ahead at a cost in the region of €3 million. The 2,000 sq ft unit will more than double the existing space currently dedicated to A&E, and will allow for 25,000 patients annually to be treated in modern and efficient circumstances. The tendering process to identify the specialist architects and engineers for the project just recently got underway and work will begin on site in the near future.

Mercy Hospital New A&E Department

RSL (Ireland) Ltd

**RECOGNISED LEADER IN THE WHOLESALE SUPPLY OF
INDUSTRIAL AND COMMERCIAL REFRIGERATION,
AIR CONDITIONING AND ALLIED EQUIPMENT.**

Minimising the safety, health and environmental impact of refrigeration systems is not just good professional practice ... it is also required by force of law! RSL (Ireland) Ltd, through its partnership with Ineos and Murco, offers total solutions in respect of:—

- ❑ System Design
- ❑ Product Supply
- ❑ Leak Detection
- ❑ Gas Recovery
- ❑ Gas Recycling/Disposal

Specifiers and end-users wishing to ensure compliance with legislative requirements and optimum performance of plant and equipment can do so by nominating products from RSL Ireland.

**IRELAND'S LEADING STOCKISTS AND DISTRIBUTORS OF
REFRIGERATION AND AIR CONDITIONING EQUIPMENT**

Cork Tel: 021 - 431 7221

Belfast Tel: 028 90 370595

Dublin Tel: 01 - 450 8011

Galway Tel: 091 - 757818

email: info@rslireland.com

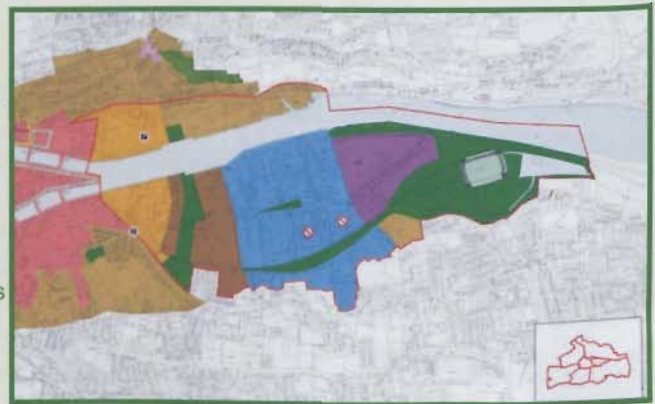
www.rslireland.com



The Cork Docklands Project evolved from the Cork Area Strategic Plan commissioned by Cork City and County Councils and envisages a comprehensive redevelopment of over 400 acres of the docklands area. Developments already completed are the Webworks, City Quarter and Lapp's Quay developments.

An extensive range of uses is proposed for the larger, overall site, incorporating:

- Extensive new non-residential uses including offices, university, retail, cultural and leisure facilities extending through the north and south docks area;
 - Approximately 6,000 new homes, including higher-density apartments, student accommodation and family units concentrated on Horgan's Quay, in the central south docks area and along Monahan's road;
 - New parks, public spaces and pedestrian routes, a new marina, moorings and recreation areas distributed across the whole docks area;
 - A new public transport system, including new rail station concourse and bus station.
- Developer Howard Holdings are set to play a major role in the massive development of the Docklands area, and have already submitted their "masterplan" to Cork City Council.



Cork Docklands Development



Port of Cork bosses have indicated that they are willing to move from their location near the city centre, but only at the right price. The current Tivoli terminal will relocate to a site close to the existing ferry terminal at Ringaskiddy, particularly as port traffic is up by nearly 18% for the first half of 2005 as compared to the same period in 2004. An extra 737,000 tonnes of traffic passed through the port from January to June this year, compared to 2004. A total of 4.93 million tonnes were handled by the Port of Cork during that period of 2004. The terminal at Tivoli is deemed no longer big enough to cater for the business growth envisaged, and city planners view the city waterfront as the focal point for major commercial and residential development, on similar lines to the Dublin Docklands development.

It is believed a number of major investors have expressed interest in apartment and commercial development on the quays. At current market levels, this land and rights are estimated to be worth in the region of €2million an acre.

Port of Cork

Work recently began on the new Cork School of Music on a site in Union Quay, after years of mostly financial and planning problems. The project will be built, funded and run for 25 years by Hochtief Developments at a cost of €68 million. The total contract volume is closer to €210 million according to the developers. The terms of the contract include Hochtief maintaining the new facility for the period of 25 years at a cost of €7.6 million to the Government.

The school will accommodate nearly 500 full-time and 2,000 part-time students, and include more than 10,500 sq m of facilities such as 50 teaching/practice studios, a 500-seater auditorium, a drama theatre, a professional recording studio, as well as further studios, theatres and laboratories. There will also be accommodation on site. Completion date is scheduled for September 2007. Design was by Murray O'Laoire Architects.

Cork School of Music



The popular Crow's Nest pub was all but destroyed by fire in February 2004. Now, one of Cork's best-known pubs could be demolished to make way for a multi-million euro development. The adjacent four 2-storey houses at Victoria Terrace, and the MP Crowley machinery shed, would also be demolished to make way for the new development on the 0.266 hectare site. The proposed new development will consist of a mixed residential and commercial building of 15 storeys in height. The residential accommodation will consist of a total of 74 one, two and three bedroom apartments, with the commercial element of 937.8 sq me incorporating four ground floor units, a pub, delicatessen and restaurant.

Crow's Nest Mixed-Use

This development by O'Callaghan Properties was designed by architects Henry J Lyons Partners and comprises a 182-bed hotel and 260 apartments on the site of the original hotel. Development is already underway and set to proceed rapidly for an opening sometime next year.

The original building was demolished on Lancaster Quay, with the new hotel to include a leisure centre, a 260-unit residential scheme (scaled down from the original 303 units), a new vehicular/pedestrian bridge and junction facilitating the development and crèche facilities. The hotel will be six storeys in height over basement level. There will be 453 car-parking spaces and 151 cycle parking spaces.

Jury's Hotel, Lancaster Quay



Parchment Square

The Kenny Group's €100 million office development set for Patrick's Quay was recently given planning permission by the City Council, and is set to be Cork's largest ever such development.

The six-storey, 7,681 sq m, building will have an ey-catching impact on the quay, with its curved, glass façade. Design was by Wilson Architects.

The Kenny Group is also developing on the Grand Parade and has completed Section 50 student accommodation on the Model Farm Road, known as Parchment Square.

The Treasury, Patrick's Quay

This project involves the construction of a 10,039 sq m building at the former Goldcrop property to the side and rear of Centre Park House. The proposal includes the demolition of the existing Goldcrop buildings; the construction of seven floors, a reduced-footprint eight floor; a ground floor mezzanine to accommodate business and technology uses; and the provision of two floors of basement car parking to accommodate 211 spaces.

Goldcrop/Gouldings Chemicals' Site

This unique centre-of-excellence will involve an investment of €530 million and comprise a 25,000 sq m facility of four separate buildings linked by a central walkway. Covering 30 acres of a 100-acre site, it is being built by John Sisk and Son, the largest general contracting firm in the country. The ground-breaking ceremony took part in September 2005, with an address by Minister for Enterprise, Trade and Employment, Michéal Martin.

Centocoor Biomedicine Centre of Excellence

FOHN

Building Services News, Vol. 44, Iss. 9 [2005], Art. 1



Cabinet heater

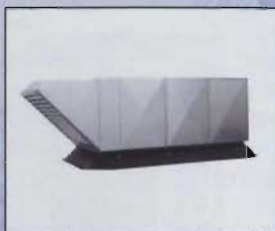
CAPACITY: 30 KW – 1,000 KW

PRODUCT APPLICATION

Factories • Engineering Plants • Abattoirs • Cardboard Factories
Paper Factories • Workshops • Garages • Warehouses • Shops
Aeroplane Hangars • Showrooms • Hotels • Cash & Carry
Gymnasiums • Dressings Rooms • Exhibition Halls

GS / GC / ROOF TOP

Unit air heater



CAPACITY: 20 KW – 95 KW

PRODUCT APPLICATION

Factories • Engineering Plants • Abattoirs • Cardboard Factories
Paper Factories • Workshops • Garages • Warehouses • Shops
Aeroplane Hangars • Showrooms • Hotels • Cash & Carry
Gymnasiums • Dressings Rooms • Exhibition Halls • Pub's, Bar's & Restaurants

CALFLO

Gas-fired make up air unit



CAPACITY: 65 KW – 1,200 KW (+)

PRODUCT APPLICATION

Engineering Plants • Spray Cabinets
Paper Factories • Garages • Exhibition Halls
Process Industry • Factories • Abattoirs •
Cardboard Factories

RADIANT PLAQUE



CAPACITY: 2.5 KW – 27 KW

PRODUCT APPLICATION

• Aeroplane Hangars • Shops • Cash & Carry
• Cargo Platform • Grandstand • Workshops • Warehouses
Gymnasiums • Exhibition Halls

INFRA AQUA

Water radiant panels

CAPACITY: Project Related

PRODUCT APPLICATION

Offices • Factories • Abattoirs • Workshops •
Garages • Warehouses • Shops •
• Showrooms/Hotel • Cash & Carry
Gymnasiums • Dressings Rooms • Exhibition Halls
• Churches • Aeroplane Hangars



INFRA/INFRA MONO

Gas-fired black



CAPACITY:

PRODUCT

Factories • Engineering Plants
Warehouses • Aeroplane Hangars
Gymnasiums • Exhibition Halls

TANNER / DOOR

Warm water



CAPACITY:

PRODUCT

Factories • Engineering Plants •
Warehouses • Aeroplane Hangars
Cash & Carry • Gymnasiums •

KLIMAT

Air handling units



ECOFAN

Destratification



PRODUCT APPLICATION

Factories • Engineering Plants • Abattoirs
Aeroplane Hangars • Showrooms • Hotels •
Gymnasiums • Dressing Rooms •

mark
Environmental Technology

TEL.: +353 (0)26 45334

FAX: +353 (0)26 45383

e-mail: sales@markeire.com

www.mark.nl

INFRA LINE

tube radiant heating



13 KW – 100 KW

APPLICATION

- Abattoirs • Workshops • Garages
- Shops • Cash & Carry
- Cargo Platform • Grandstand

CURTAINS

unit air heaters



8 KW – 115 KW

APPLICATION

- Abattoirs • Workshops • Garages
- Showrooms • Shops
- Dressing Rooms • Exhibition Halls

PRODUCT APPLICATION:

- Offices • Factories • Spray Cabinets
- Abattoirs • Workshops • Garages
- Warehouses • Aeroplane Hangars •
- Showrooms • Hotels • Shops •
- Cash & Carry
- Gymnasiums • Dressing Rooms •
- Churches • Pub's, Bar's & Restaurants

CAPACITY:
4,000 - 8,000 -
14,000 m³/h



- Workshops • Garages
- Shops • Cash & Carry
- Exhibition Halls • Churches

mark
Environmental Technology

TEL.: +353 (0)26 45334

FAX: +353 (0)26 45383

e-mail: sales@markeire.com

www.inmark.ie

Published by ARROW@TU Dublin, 2005

DRYFLO

et al.: BS News

Industrial burner installation



CAPACITY: 1 KW – 13,000 KW (+)

PRODUCT APPLICATION

Process Industry

VENTILATION MDV

Roof fan

CAPACITY: 1,840 to 10,200 m³/h

PRODUCT APPLICATION

- Offices • Process Industry • Construction Halls •
- Factories • Engineering Plants
- Spray Cabinets • Abattoirs • Workshops • Garages •
- Warehouses • Cash & Carry
- Aeroplane Hangars • Showrooms • Hotels • Shops •
- Gymnasiums • Dressing Rooms



WALL MOUNTED HEATING

Gas fired wall and ceiling heaters

CAPACITY: 2.5 KW – 10 KW



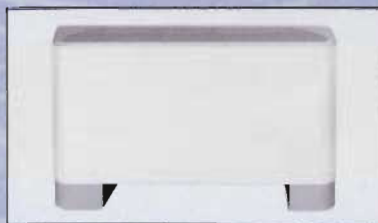
PRODUCT APPLICATION

- Offices • Domestic Rooms • Creche • Meeting Rooms
- Car Show Rooms • Hotel Rooms • Banks • Shops

FAN COIL

Wall and ceiling L.P.H.W. fan coil

CAPACITY: * Heating 3.6 KW to 16 KW
* Cooling 1.5 KW to 6.9 KW



PRODUCT APPLICATION

- Offices • Domestic Rooms • Creche • Meeting Rooms
- Car Show Rooms • Hotel Rooms • Banks • Shops

BENDER

Hydraulic pipe bending machine



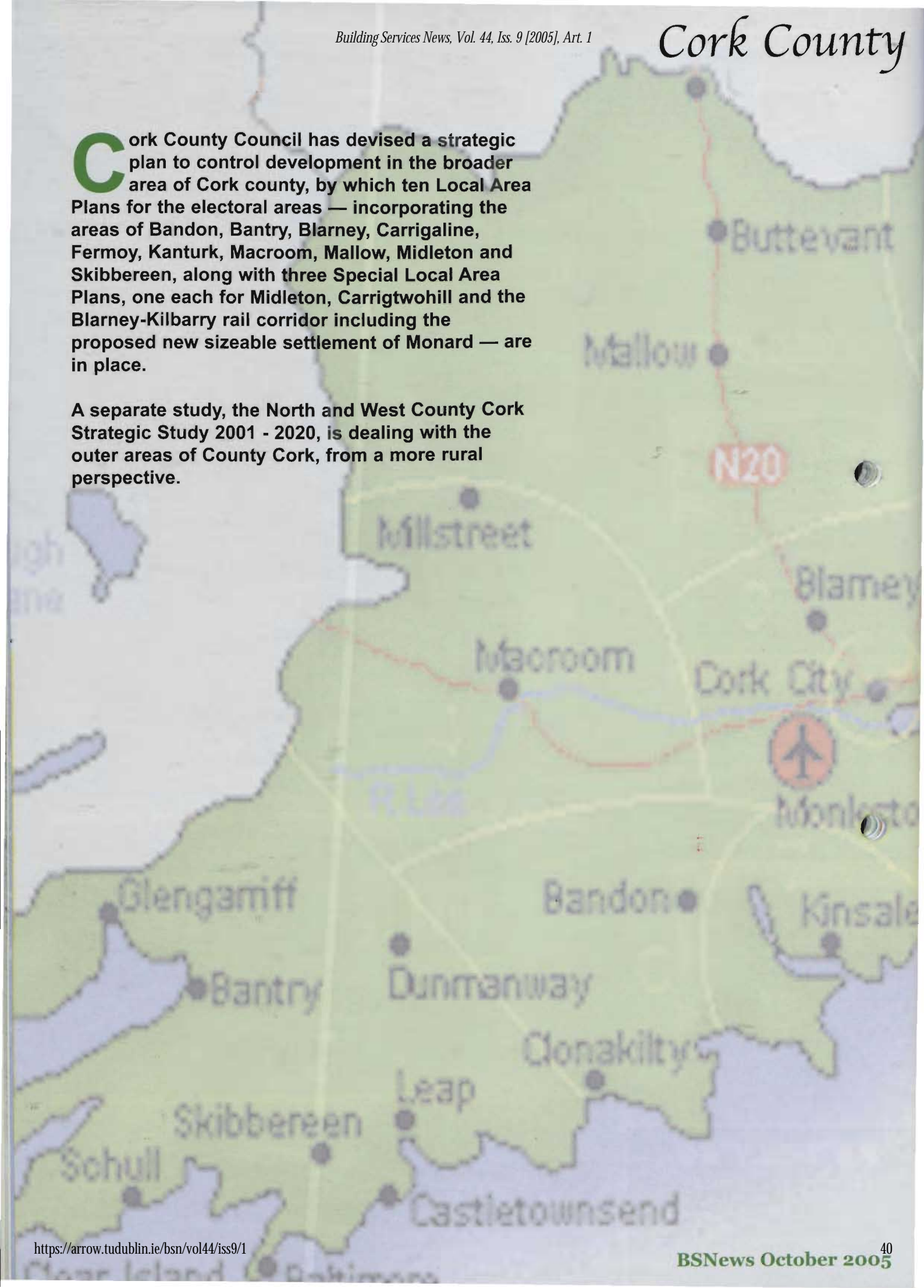
PIPE DIAMETERS: 3/8" to 4" (thick-wall)
10mm to 42mm (thin-wall)

CONTROL: Hand or Electric

Cork County

Cork County Council has devised a strategic plan to control development in the broader area of Cork county, by which ten Local Area Plans for the electoral areas — incorporating the areas of Bandon, Bantry, Blarney, Carrigaline, Fermoy, Kanturk, Macroom, Mallow, Midleton and Skibbereen, along with three Special Local Area Plans, one each for Midleton, Carrigtwohill and the Blarney-Kilbarry rail corridor including the proposed new sizeable settlement of Monard — are in place.

A separate study, the North and West County Cork Strategic Study 2001 - 2020, is dealing with the outer areas of County Cork, from a more rural perspective.



STANDARD CONTROL SYSTEMS

et al.: BS News

Ireland's foremost provider of "Intelligent Building Management Systems" are delighted to further enhance their commitment to the Munster region with the opening of their new offices at 14 Penrose Wharf, Cork.

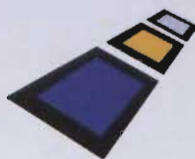
A small sample of the prestigious projects undertaken by Standard Control Systems:

dublin

cork

galway

- ☐ Lewis Glucksmann Gallery, UCC
- ☐ Cork Civic Offices
- ☐ Bon Secours Hospital Refurbishment
- ☐ Fota Island Hotel Development
- ☐ Post-Grad. Research Library, UCC
- ☐ Brookfield House, UCC
- ☐ ESB Offices, Wilton
- ☐ New Terminal, Cork Airport
- ☐ Mahon Point Printing works
- ☐ Cascade Biochem Ltd.
- ☐ Tellengana Office Development
- ☐ Cork Archives Building, Blackpool
- ☐ Bantry Garda Station
- ☐ Collins' Barracks



Standard Control Systems

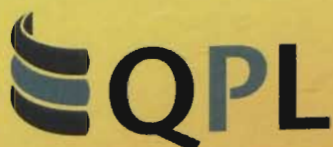
Cork: Tel: 021 - 455 5671 Fax: 021 - 486 1303

Dublin: Tel: 01 - 429 1800 Fax: 01 - 429 1801

Galway: Tel/Fax: 091 - 753 270

email: info@standardcontrol.ie

www.standardcontrol.ie



Quality Plastics Ltd

P.O. Box 29, Whites Cross, Cork

Tel: 021 - 488 4700 Fax: 021 - 488 4701

email: underfloor@qpl.ie www.qpl.ie

COSY HOME

Underfloor Heating System

For true comfort, efficiency and reliability, choose superior Qual-Pex Barrier pipes and Automix compensating controls.

Call today for a free quotation



IRELAND'S NUMBER ONE UNDERFLOOR HEATING COMPANY



At present there are various planning proposals and applications before the county officials in each of these areas. For the most part they are welcome and are being positively considered but, a recurring theme from feedback by the local villages and towns is the concern that local infrastructure, as well as local services, facilities and amenities, are in need of improvement should the plans be allowed to go ahead. In fact, in many instances, the feeling is that even existing developments and settlements are short on those services, let alone what they would be like should new developments proceed.

However, the reality is that this challenge, in itself, represents further opportunity for the engineering and construction industries. Development is inevitable in the greater Cork region. The onus now is on the county officials and private sector representatives to engage with one another to devise and implement a managed infrastructure development programme.

County councillors met on 5 September this year to discuss amending the 13 local area plans that cover the whole of the county. Councilors then had to

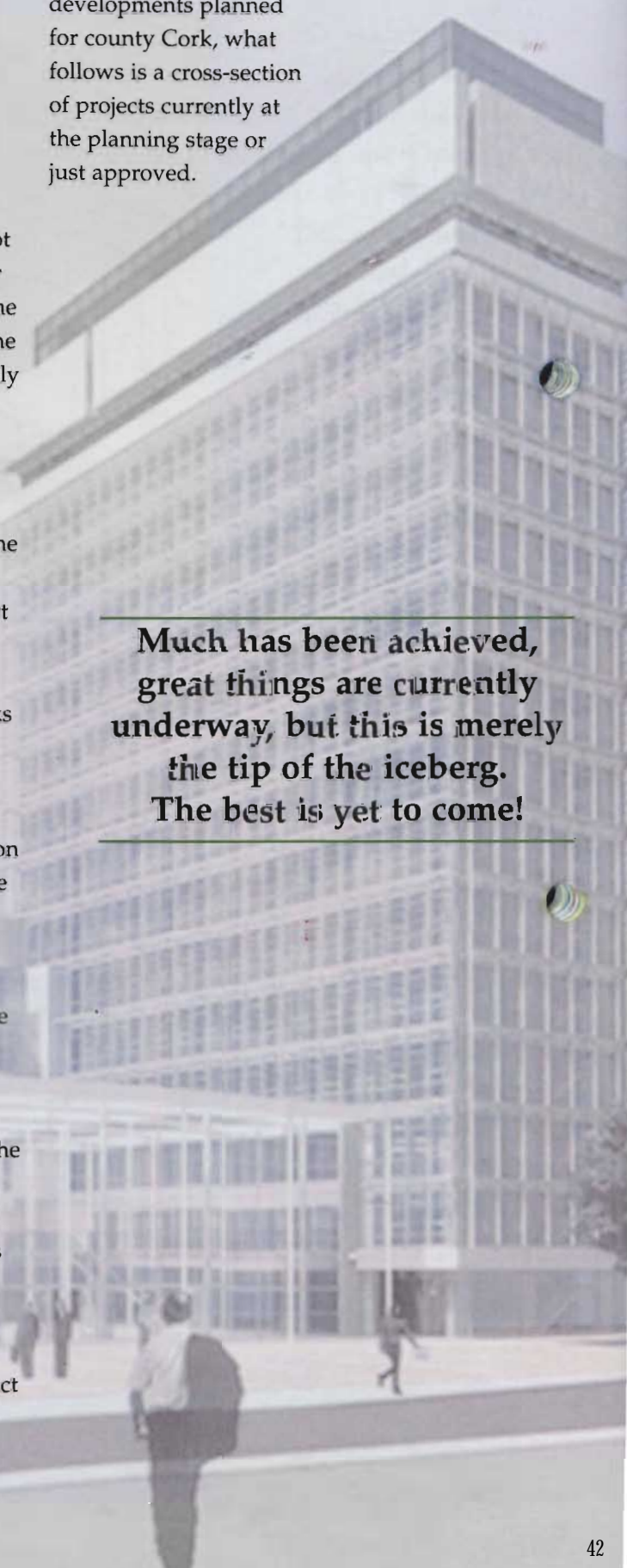
pass the plans, in their entirety, by 12 September, in order to comply with the timetable set down by law. At this stage the plans can still be changed, but only in relation to the amendments made earlier this year. Nothing new can be introduced.

The 13 plans generally involved a lot of extra land zoned for development during the process, and most of the changes were essentially adding extra zonings, and extending the boundaries of villages and towns. These changes also involve the need for huge investment in transport and infrastructure.

The County Development Plan talks included some frantic lobbying by communities in what was a stormy process on the whole. Cork people now want to live in villages with easy, commutable access to the city. However, there are implications for those communities. It was widely reported that developers used the promise of amenities and local services to persuade communities to support developments. Regardless of whether they did or not, that fact remains that those services and amenities must too be built and provided. Either way the plans are now in

place, and the development can begin in earnest.

To give product and services suppliers an indication of the scope and extent of developments planned for county Cork, what follows is a cross-section of projects currently at the planning stage or just approved.



Much has been achieved, great things are currently underway, but this is merely the tip of the iceberg. The best is yet to come!

Stainless Steel Push-Fit Drainage Pipework

40% Labour Saving
Compared to Alternatives

Available Ex-Stock
in Ireland



BLÜCHER EuroPipe®

With excellent and proven whole life cost benefits EuroPipe® is a modern pipework system ideal for soil, waste, process and rainwater use in both above and below ground applications. With it's size range of 50-200mm, EuroPipe® compliments the Blücher range of stainless steel drains, channels, access covers and grease separators.

BSS (Ireland) Ltd — Cork

Unit 20 South Link Park, Ballycurreen Road,
Grange, Cork.

Tel: 021 - 432 1588 Fax: 021 - 432 1595
email: 1960.sales@bssgroup.com

BSS (Ireland) Ltd — Dublin

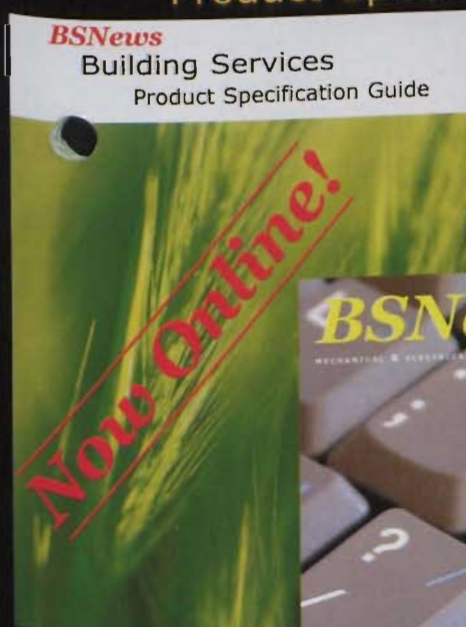
White Heather Industrial Estate,
301 South Circular Road, Dublin 8.

Tel: 01 - 416 5100 Fax: 01 - 416 5165
email: 1930.sales@bssgroup.com

BSNews

Building Services

Product Specification Guide



See for yourself ... log on to
www.bsnewsbuyerguide.com
and register to **PREVIEW** the site.

There are a limited number of
"Button Adverts" available at a special
introductory rate of **€750** for the inaugural
12-month period.

The format will comprise your
company's logo and a direct email link.

These adverts will be interspersed and
repeated within various sub-category
sections.

*This is an excellent opportunity for you
to promote your products to key
decision-makers in building services.*

Contact: Joe Warren

tel: 01 - 2885001 mobile: 086 253 7115

email: joe@pressline.ie

RSL — 'Big Enough To Lead ... Small Enough To Be Directly Involved'

Building Services News, Vol. 44, Iss. 9 [2005], Art. 1

RSL is the recognised leader in the wholesale supply of industrial and commercial refrigeration, air conditioning and allied equipment. Established in Dublin 38 years ago, it set up a dedicated Cork-based operation in 1982 and has since been actively involved in the many changes the marketplace has undergone over the last 20 years or so.

RSL only works with the quality and technically-advanced manufacturers in the different industry sectors and maintains a permanent, multi-million euro, inventory to guarantee customers prompt availability, along with efficient, knowledgeable and courteous service.

All of RSL branches — Dublin, Cork, Galway and Belfast — provide free delivery, using its own transport

fleet, in addition to six and a half-day trade counter service.

Additionally, RSL has a sister company in the UK which was founded in 1946 and has depots in London, Exeter, Manchester, Coventry and Glasgow.

Managing Director Gerry McDonagh says: "We feel we're the perfectly-sized company for what we do. We're big enough to stay on top of technology — with a staff of fully-qualified sales engineers and designers — yet we're small enough to give our sales and technical teams the freedom to work closely with our clients. This way they can determine their precise needs, discuss all the options, and deliver the right solution to keep them ahead. We also supply MSDS Certs (safety data sheets), CE Certs, Certificates of Conformity and copies



A Bitzer semi-hermetic screw compressors

of the latest Standards.

"As an ISO 9001 certified company the manner in which we deliver that service is also endorsed. We are ideally placed to offer the design and selection expertise for any industrial, commercial refrigeration or air conditioning projects. Our sales engineers are qualified in all relevant areas and have a combined knowledge base of decades of experience and learning. To reinforce this they regularly attend international seminars and training sessions to keep them up with the latest techniques and technology".

RSL personnel are also actively involved in industry-related organisations such as the Institute of Refrigeration of Ireland, the Institution of Engineers of Ireland, and ASHRAE. Very often they make presentations to

industry gatherings dealing with standards, regulations, best practice policy and new techniques.

In order to offer the best technical advice RSL uses the latest information technologies and has developed its own software for design and optimised equipment selection. This, along with software from its many suppliers, is freely available to customers. It also has an input into Government and EU policy-making decisions through its relationship with these suppliers.

Contact: Gerry McDonagh or Seamus Kerr, RSL Ireland.
Tel: 01 - 450 8011 (Dublin); and
Noel Scanlon, RSL Ireland (Cork).
Tel: 021 - 431 7221;
www.rslireland.com



A Centauro air cooled condenser

Calpeda — Unique Custom-Build Approach

et al.: BS News

Calpeda Pumps (Ireland) Ltd is a directly-owned subsidiary of Calpeda SpA, the leading Italian pump manufacturer. Graham Fay is the Director for Ireland and, over the last few years, he has reinforced and expanded the brand's status to a point where it is now challenging the more established brands in the marketplace.

"Calpeda Pumps is not just about products", says Graham Fay, "but more about devising and delivering pumping solutions to a wide range of industrial, domestic and commercial customers. To that end we have an established dealer network providing nationwide technical sales, application and installation support across the entire product portfolio. They each carry spares and accessories to provide immediate response to call-outs, while the large quantities held ex-stock at our Dunshaughlin headquarters provide additional support. These can be dispatched anywhere in the country within a matter of hours.

"We are unique in that every unit supplied — from the smallest to the largest — is custom-built at the Calpeda factory and delivered directly to site to coincide with the installation timeframe. This includes pumps requiring special features. All are rigorously tested, both hydraulically and electrically, before being dispatched."

Technological innovation and

advanced design epitomise the entire Calpeda portfolio, new products and ground-breaking developments constantly coming on stream.

The scope of the portfolio is all-embracing, and includes close-coupled centrifugal pumps; end-suction centrifugal pumps; horizontal and vertical multi-stage pumps; self-draining whirlpool pumps; self-priming swimming pool pumps; centrifugal pumps with open impeller; self-priming centrifugal pumps with open impeller; self-priming liquid ring pumps; self-priming jet pumps; gear pumps; vertical submerged pumps; submersible drainage pumps; submersible sewage and drainage pumps; multi-stage submersible clean water pumps; submersible bore-hole pumps; electronic regulator for pumps; pressure boosting sets; and fire-fighting sets.

Applications include:—

- Clean liquids without abrasives, which are non-aggressive for the pump materials (solids content up to 0.2%);
- Water supply;
- Heating, air conditioning, cooling and circulation plants;
- Civil and industrial requirements;
- Fire fighting;
- Irrigation.

While the Calpeda range is extensive, there are situations where a solution requires a more specialised, application-specific, product. Hence, Calpeda Pumps (Ireland) has secured distribution rights for a number of other, market-leading pump brands. These have been carefully selected to complement the Calpeda range. Included are Smedegaard domestic, commercial and industrial heating pumps (glandless and glanded), together with chilled water pumps, HWS bronze pumps and pumps for non-aggressive fluids; and Alma Pompe sewage and wastewater pumps.

Completing the portfolio is the PFG range of break tanks which are essential in devising water supply solutions for major apartment complexes. Developers and consulting engineers are increasingly turning to Calpeda Pumps (Ireland) to devise



The new Smedegaard MiniWatt from Calpeda Pumps.



The Alma Pompe submersible pump for waste water.

design, supply and install total water supply solutions which comply with the new Local Authority Bye Laws which prohibit direct connection to the mains.

The scope of the products and services provided by Calpeda Pumps (Ireland) is all-embracing. It is dynamic and innovative, the extensive experience and knowledge base of Graham Fay and his colleagues being applied to the strength of the product portfolio to deliver the most cost-effective and energy-efficient solution for each particular application.

Contact: Graham Fay/Stephen McDowell, Calpeda Pumps (Ireland).
Tel: 01 - 828 8212;
email: info@calpedaireland.com



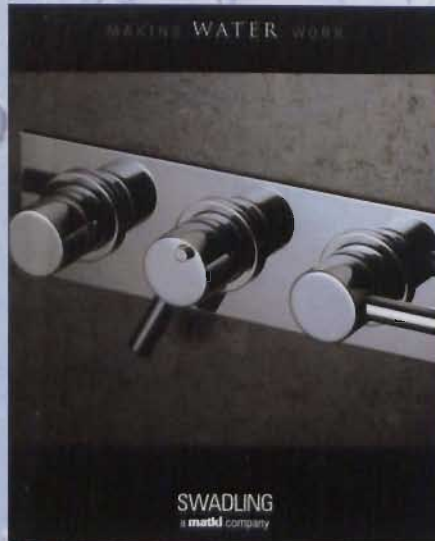
Every unit supplied — from the smallest to the largest — is custom-built at the Calpeda factory and delivered directly to site to coincide with the installation timeframe.

B. J. Caraher (Distributors) Ltd.

WHOLESALE DISTRIBUTORS OF PLUMBING PRODUCTS

Albion
The Cylinder People

Calorifiers
Domestic
Cylinders
Saturn -
Superduty
Aquapak



WEDNESBURY
MUELLER
INDUSTRIES, INC.

**COPPER
TUBE**
GUARANTEED
20 YEARS



vasari



TIMELESS MODERN,
YET CLASSIC, STYLES



TREVI
By Ideal Standard



High
Performance
Shower
Valves

aquatherm



*Ideal
Standard*

The gentle organic curves of Drift
invoke a tranquil mood of relaxation.
If you want a bathroom that feels like
your own private sanctuary — Drift
will let you achieve it.



Ramon Soler
Taps of Distinction



Telephone: 048 - 9751 1071 Fax: 048 - 9751 0921
email: aidan@bjcaraher.co.uk web: www.bjcaraher.co.uk

Matki Showering

et al.: BS News

Matki 1700 Walk-In Corner & Recess



B.J. Caraher (Distributors) Ltd.
WHOLESALE DISTRIBUTORS OF PLUMBING PRODUCTS

BJ Caraher (Distributors) Ltd

Dorphan House,
29 Belfast Road,
Saintfield,

Co Down BT24 7EP

www.bjcaraher.co.uk

Wavin Pex 'The Ultimate Quality in Pex Pipe'

Building Services News, Vol. 44, Iss. 9 [2005], Art. 1

When plumbers, builders and specifiers want quality and fit-for-purpose products which they can completely rely on, they turn to Wavin. For almost 50 years now Wavin has been providing products in which specifiers and end-users can have the utmost confidence.

A good example is Wavin Pex. This is one of the highest-quality products on the market. It far exceeds the requirements of Class S service conditions as specified in BS 7291-1-2001 and carries the Irish Agreement Board Certification, Certificate No. 04/0201. It is fully approved for both open and closed central heating systems, underfloor heating and plumbing applications.

Since its launch Wavin Pex has been strongly endorsed by plumbers for its flexibility, strength and ease of application. Wavin has rigorously tested and re-tested this pex pipe in extremes of temperature to produce the ultimate pex pipe for hot and cold applications.

It is suitable for all plumbing applications and includes an internal oxygen barrier, making it the choice for central and underfloor heating applications, as well as tap water installations. It is also ideal for those hard-to-reach places that every

installer encounters.

The pipe has been rigorously tested with IS EN 1254 Brass Compression Fittings and Irish Dimension Tectite Push Fit Fittings. Copper inserts are required as internal support before attaching a fitting to the cut end.

Wavin offers the full range of Tectite Push Fit Fittings for use with Wavin Pex pipe. Tectite is ideal when working with limited tool space in those hard-to-reach places, giving more flexibility for better plumbing solutions.

As Wavin Pex weighs only a fraction the weight of copper, it

is lightweight and easily transportable on site. It comes in a range of coil sizes and straight lengths to allow for short and long pipe runs without the use of connectors. It can be uncoiled with little effort and for ease of measurement the pipe has markings every metre.

Wavin Pex bends to small angles, thus creating less effort and less waste. No bending tools are required. Fewer elbow fittings are required in a typical installation. It can be cabled around obstructions and through joists. The need for notching — which

can weaken the joist — is eliminated.

It can also be installed in suspended ceilings, from below, before the ceilings are fitted. Accurate pre-measuring is not required: the pipe can be measured and "cut on the job". Pipe clips can be used and are fixed using just a hammer.

Over the period of its life Wavin Pex pipe will not be damaged by freezing temperatures. The internal bore is smooth and is not liable to accumulation of scale in hard water areas. Pipes will not corrode under the action of soft water. Thermal expansion is accommodated within the length of a pipe run, reducing movement and subsequent creaking noises on joists, etc. Low thermal conductivity values mean that hot pipes are cooler to touch and the incidence of condensation on cold pipe is reduced.

The Wavin Pex oxygen barrier greatly reduces the ingress of air into the system, thus reducing the corrosion within a central heating system. Wavin Pex has a product guarantee of 25 years against defects in materials and manufacture and has a life expectancy in excess of 50 years.

Contact: Larry Carr, Wavin Ireland.
Tel: 01 - 802 0200;
ie_info@wavin.com



Sanyo — 'The Natural Choice'

As part of the new development boom in Cork and a resulting factor of the recent investment of approximately €2 billion in the transformation of the commercial, industrial, retail and housing sectors, the face of the Greater Cork Region is changing.

Sanyo — having firmly established its position in the Irish market — is intent on assisting with the development, and fruition, of the projects which will shape this region for the future. A prime example of this is the current installation of the Sanyo GHP VRF system into the new luxury 5-star Fota Island Hotel at Fota Island Resort.

Kelly Refrigeration of Ennis, Co Clare, one of Sanyo's leading installers, worked closely with the appointed consultant engineers — EG Pettit & Company — to devise the most appropriate solution to meet the needs of such a prestigious hotel. The option of either a gas or electric solution was put forward but it quickly became clear that the gas system was the most suitable for this application and the clients needs.

Together with Sanyo's technical team and drawing from collective experiences of large and complex installations, a system was agreed which utilises the latest VRF technology from the



Fota Island Wildlife Park, Fota Island, Cork. The Sanyo GHP VRF system has been specified for the new luxury 5-star Fota Island Hotel which is being built at the Fota Island Resort, immediately adjacent to the Wildlife Park.

extensive Sanyo range ... the Sanyo GHP (gas engine heat pump).

Innovative, unique, economical, environmentally-friendly and highly-efficient are all words to describe the Sanyo gas-powered range of VRF systems. As the clear market-leader in Japan and making its debut as a 3-Pipe version that will provide simultaneous heating and cooling, the ECO G is the only gas heat pump range in Europe to offer a single phase power supply with the option of natural gas or LPG as a main power source.

The Sanyo GHP, due to its advanced technology and design, requires no defrost cycle which enables it to provide continuous 100% heating performance even in severe winter conditions with an outside temperature as low as -20°C, while consuming less gas and electricity than comparable air conditioning systems. This was obviously a huge benefit when considering the correct



system for the hotel.

The solution for the Fota Island Hotel provides 504kW cooling capacity via 139 concealed indoor units with nine rooftop GHP VRF outdoor condensing units providing simultaneous heating and cooling.

According to Alastair Howard of EG Pettit & Company, Cork: "We reviewed a number of alternative solutions for hotel air conditioning. A natural gas operated heat pump system was identified as providing energy saving heat recovery, automatic heating and cooling change-over,

simultaneous heating and cooling, BMS and Reception Desk controls interface, low running cost and a short term payback. On the basis of our analysis for this project, we recommended the natural gas heat pump system from Sanyo, which is currently being installed."

This installation, among many others, is a clear indication of the "choice" Sanyo Air Conditioners brings to the market

Contact: Barry Hennessy or Sinead Duffy, Sanyo Air Conditioners.
Tel: 01 - 403 9900;
www.sanyoaircon.com

Dim That Noise!!!



When does a sound become a noise? When it is unwanted. What is music to the ears of some is an unholy din to others. It can also damage hearing.

Moreover, it can also affect the value of a home or office premises. It has been calculated that every one decibel rise in neighbourhood noise reduce the value of the average property by 0.7%.

Noise is not a new problem. Back in the first century AD the romans were suffering too ... from the noise of iron-rimmed chariot wheels on cobbled streets for instance. The situation got so bad that the emperor, Julius Caesar, passed a law banning all chariots from the streets after dark.

Now there is 21st century legislation to help prevent the problems of noisy neighbours. Careful design and the correct materials can prevent airborne and structure-borne noise within buildings.

A wide range of these sound insulation

materials will be on display at the Selfbuild, Extend & Renovate Show taking place at Millstreet, Co Cork from the 4 to 6 November 2005. This is the fastest growing show in Ireland and is attracting increasing number of architects, specifiers and builders, along with the core visitors of self-builders, extenders and renovators.

In addition to insulation from noise, there is a huge range of materials to choose from to insulate buildings from the cold and, with oil prices rocketing, there are many alternative forms of energy featured, including wind, solar and geothermal. For the traditionalists there are even displays of hemp walling, thatching and lime plastering.

The show is open from 1pm to 7pm, Friday 4 November; and 11am to 6pm Saturday and Sunday 5/6 November. Entrance to trade visitors and professionals is free. Members of the public face a charge of €8.

Visit:
www.selfbuild.ie

www.selfbuild.ie

Architects, Specifiers,
Engineers, Surveyors,
Builders, Plumbers...

Visit the

SelfBuild

Extend & Renovate **SHOW**

**Millstreet
Co. Cork
2005**

Friday 4 November 1pm - 7pm
Saturday 5 November 11am - 6pm
Sunday 6 November 11am - 6pm

**"A really good show
for professionals!"**



SelfBuild

Extend & Renovate **SHOW**

ADMIT TWO

MILLSTREET, CO. CORK 4-6 NOVEMBER 2005

**FREE
ENTRANCE**

VALUE €16



Crosshaven



Garrettstown



Kinsale



Carrigtwohill



Macroom

With the €100 million project for a new station currently out to tender, the planned re-opening of the Cork to Midleton rail line is so far on schedule. Midleton is one of Cork's fastest-developing regions and there is no doubt but that the rail connection will spur a frenzy of projects. CIE owns 15 acres around the area of the existing station and this, too, provides scope for massive development.

Points along the line from Midleton to Cork will also benefit, and there have already been calls to extend the line all the way to Youghal in east Cork on the border with Waterford.

Midleton Rail Line

The former Tesco supermarket in Midleton is to be transformed into a multi-million euro retail and commercial development. Beorg Ltd lodged an application to demolish the building at the east end of Main Street, which was sold to an anonymous buyer last March for €5.1 million.

The existing premises will be demolished and a three-storey, 1,291sq m, retail building constructed facing onto Main Street. Plans also include construction of a four-storey, 1,891 sq m, retail and commercial building on the north of the site.

Tesco Development Site, Midleton

This zoning of land in Baneshane proved particularly contentious. It even attracted comment from councillors in adjoining regions and areas. However, a €220 million plan has been given approval whereby more than 700 houses will be built on an 80-acre site by Castlelands Construction.

A condition of approval is that Castlelands must contribute €8 million towards the cost of a flyover to ease traffic congestion entering the town. The promise is crucial as it was felt that without a new flyover, the junction entering Midleton faces severe gridlock by the year 2012.

Baneshane €220 House Plan

Plans for the Blarney-Kilbarry rail corridor — including the proposed new sizeable settlement of Monard — are now in place. The new, expanded town of Monard is set to be as large as Glanmire. Planners propose to locate a new town of 5,000 homes, more than twice the size of the existing settlement at Blarney. Debate has centred on whether or not the development should be phased in over a number of years, which now looks unlikely to be the case, as well as plans for open spaces and green areas.

There have been calls for central Government funding to be provided for infrastructure in the area, especially the railway line developments. Presently, it is planned much of the development of the suburban rail network will be funded from development charges levied on developers.

Monard 5000 Houses



Cork Airport Business Park



Ballincollig Town Centre



Clonakilty



The Square, Mount Oval



Carrigaline

With a new rail station is to be built for the area, it is hardly surprising that an additional 4,000 houses are set to be built in the village of Carrigtwohill, on top of the 1000 homes completed over the last two years. Local community representatives are concerned that no amenities are being put in place to cope with this kind of expansion.

Carrigtwohill 4000 Houses

Carrigaline has the highest car commuter rate in the country among people travelling to work. Not surprisingly, there is a planned €5million western relief road in the pipeline. Demands were also made for a new €28million upgrade of the N28 to Ringaskiddy to deal with the industrial traffic there, especially as Ringaskiddy continues to develop as a major industrial area of the region.

The residential expansion of Carrigaline looks set to continue for the foreseeable future with a number of major residential developments at planning or design stage. Most of the residential development over the next few years will take place off the Fea Road at Kilnagleary and on the land bank south of the Upper Kilmoney Road (between the Minane Bridge and Ballyfeard roads), where more than 110 acres of land zoned for residential development is likely to deliver in excess of 1,000 houses in the next few years. Carrigaline is likely to have a population approaching 20,000 in five years time.

There have been calls for improvements to the town's road infrastructure, public transport network, community facilities, retail and commercial services, and recreational amenities to match the expansion in the population.

A decision is also due shortly on an application for 29, four-bed detached houses on a nine-acre site on the Mountain Road in Carrigaline. There are also issues surrounding zonings for large-scale residential development around Carrigaline.

A report on the Carrigaline area reveals that a special plan for the development of the area around Cork Airport will be drawn up within six months of the current Local Area Plans being passed, scheduled for around March 2006.

Carrigaline Major Developments

Up to 1,000 new houses will be coming on stream in the near future on the northern side of the town. As a result, a second river transport crossing is deemed necessary — or the development of the current footbridge to include a single car lane — as well as sewage infrastructure.

The development of parking in the town is seen as a high priority, hence the possibility of a multi-storey car park and the development of Harte's car park.

There have also been calls to develop a town plaza and youth facilities, for the by-pass to be completed, for improved fighting in the town, and the dredging of the river.

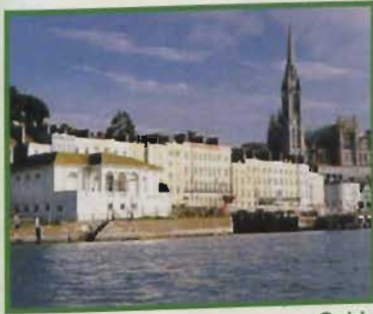
Bandon 1000 Houses

Plans for a 2,500-unit housing development in north Blarney are expected to proceed. One of the issues raised is whether or not such a development would impact on the tourist attraction that Blarney Castle importantly provides to the region.

North Blarney 2500 Houses



Rosscarbery



Cobh



Kanturk



Passage West



Whitegate

Crosshaven is expanding at a phenomenal rate with permission being sought for all manner, and size, of development. These include 300 houses/apartment on the Brightwater site; 48 apartments on the site of the former Cara Marine boatyard on Church Road; a mixed-use development comprising almost 2,000 sq m of retail and office/commercial units on the main street; and a Lidl supermarket, also in the centre of the town.

Massive Expansion at Crosshaven

There are proposals for 376 houses to be built at Kilmoney in Carrigaline. The application was made by Mallow-based Castlelands Construction Ltd and is expected to be the first of a number of significant such residential proposals. The 39-acre site has almost 300 metres of road frontage on to the Ballyfeard road, south of Pipers Cross. The plan involves the construction of a further leg of the southern relief road around the town centre. A decision was deferred by county council who requested further information on the application.

Kilmoney 376 Houses

A decision is due on 12 October on an application by Brideview Developments Ltd for planning permission to build 106 apartments on a strategically-located site in Rochestown, situated off the South Ring Road. The development would be located on 2.7 acres adjacent to St Patrick's Church on the Rochestown road. The proposed site layout involves one structure varying in height from three to five storeys.

Rochestown 2.7 acre Development

A multi-million euro 297-house development is planned for Cobh. The proposal is for 22 different house types consisting of 15 two-storey detached houses, 32 two-storey semi-detached houses, 118 two-storey terraced houses, 64 three-storey duplex units, 38 three-storey semi-detached houses, and 30 three-storey terraced houses.

Cobh 297 Homes

A multi-million euro tourist development has been approved for the Cork homestead of Sam Maguire. Presently, the house is in ruins, with just a plaque to highlight that Sam Maguire lived there.

The man who gave his name to the most coveted trophy in Gaelic football was born in Dunmanway in west Cork in 1879. Now, the owners of the homestead have joined with Doheny's GAA Club to create a visitor centre and an equestrian centre on the site.

The €5 million plans also include a hostel, laundry, canteen, eight holiday chalets, 10 mobile camper berths, a manager's residence, and amenity and recreation area. Permission has just been granted by Cork County Council.

Dunmanway Multi Euro Tourism Scheme



Mallow



Millstreet



Blarney



Youghal



Mallow

Dublin-based Goodbody Consultants predict a population of 36,600 by 2020 for the north Cork town and surrounding hinterland of Mallow. The population surge will have huge implications for the region, with 19,041 cars expected to be using local roads by 2016.

Local business groups want more land zoned for housing, a retail study to identify the needs of the town, and for the town to have a single strategic plan.

In the meantime development continues unchecked. Work is to begin shortly on the development of a 280 space car-park at Mallow's train station. The new car-park is to be located at the north end of the yard with entrances both from the Cork and Limerick sides.

Fuelling the growth is the Government decision in 2003 to transfer 200 tourism agency jobs to the north Cork town as part of the national decentralisation programme, and the fact that it was given Hub status in the National Spatial Strategy.

Mallow 'Set to Explode'

Cork County Council's decision not to allow a large housing development in Glanmire has been overturned by An Bord Pleanála. Frinaila Developments can now proceed with the project which includes 121 residential units consisting of 42 three-bed houses, 64 four-bed houses and 16 serviced sites, including a 501sq m crèche.

Glanmire is also to get a new state-of-the-art health centre to serve 35,000 people, which may ultimately open on a 24-hour basis. The Health Board Executive (HSE) Southern Area has applied for planning permission for a €2.5 million health centre, which will be located behind the former BK2 pub. Meanwhile, O'Flynn Construction has submitted plans for a 629-home equestrian and visitor centre on the grounds of Dunkathel House.

Glanmire Forges Ahead

Rathcormac could grow by another 850 houses in the coming years after rezoning was approved by Cork County Councillors recently. Community activists have reacted with dismay to the news but strict conditions put on some of the new zonings will mean they will take many years to be developed.

Three new parcels of land were rezoned in September as the process of finalising local area plans for the county was completed. Added to land already zoned in the area but not yet built on, there is now capacity to build up to 850 new houses in the north Cork village, which is fast becoming a town.

Rathcormac 850 Houses

In Glounthane, Murrayforde Developments has been granted conditional permission to build 99 residential units at Johnstown. The development will consist of 80 houses, three bungalows and 16 apartments, along with a new vehicular access on to the public road.

Another planned development is the O'Flynn Construction promoted development of 62 apartments, 638 houses, a crèche and three commercial units. The company already has permission for 527 houses at the adjacent Dunkathel House site.

Glounthane House Boom

York's Dedicated Cork Office Has The Inside Track!

et al.: BS News

York International is one of the largest independent suppliers of heating, ventilation, air-conditioning and refrigeration (HVAC&R) systems. It has a vast portfolio catering for residential and commercial markets, industrial processing, and industrial/commercial refrigeration applications. Unlike some of its multi-national competitors, it has a dedicated Cork-based office for many years and this has been a significant factor in the large market share it now enjoys in the region.

Equally important is the comprehensive technical engineering support provided. Dave Dorney and his colleagues — Brenda O'Sullivan and Philip Masterson — lead an experienced team of dedicated professionals who liaise very closely with consultants and end-users to devise the best solution for each project.

Essentially, the York portfolio falls into three main categories: —

- Engineered systems which includes chillers, air-handling equipment, and controls for both land-based and marine HVAC applications;
- Refrigeration systems which include service, contracting, screw

and reciprocating compressors, condensers, heat-transfer equipment, marine-refrigeration systems, pressure vessels, packaged-refrigeration systems, computerized-control systems, hygienic air-handling and distribution systems, and gas-compression systems;

- Unitary products such as central air-conditioning systems, heat pumps, gas and oil furnaces, indoor-air-quality accessories, replacement parts, and single-package units which combine gas heating and electric cooling.

One of the most successful products from the range is the York YK centrifugal water-cooled chiller. With cooling capacities ranging from 800kW to 8500kW and a reputation for performance excellence,

energy-efficiency and reliability, it is hardly surprising that YK chillers are installed in all manner and size of application in the region.

A crucial factor is the importance of "real world" energy performance. Because chillers in the real world operate nearly 95% of the time at off-design conditions, off-design performance is a major factor in energy consumption. That is why York YK centrifugal chillers are engineered for maximum efficiency at both design and off-design conditions.

But York is not all about chillers. It also has a large air handling portfolio, the YMA family of units being a typical example. This range consists of 31 models having air volumes ranging from 0.25m³/s to 26m³/s and total static pressures as high as 2000 Pascal. Custom-designed units with larger capacities up to

50m³/s are also available. That said, to ensure maximum flexibility and the best solution, units are available in 50mm increments in both height and width.

Eurovent certified for guaranteed performance, unit frames are constructed from extruded aluminium profiles and have flush-fitting panels and doors to provide aesthetically-pleasing lines. All panels are completely removable while the thermally-insulated rigid enclosure is fully sealed to provide enhanced acoustic performance.

Depending on the application, units may be single or double-decked and include cooling and heating coils; humidifiers; heat recovery systems; sound attenuation; factory-fitted controls and sensors; air mixing boxes; gas-fired burners; various filter options; and dessicant and thermal wheels. Accurate computer selection ensures cost-effective matching of all components to satisfy the specified conditions.

Contact: Dave Dorney or Brenda O'Sullivan, York ACR Cork.

Tel: 021 - 434 6580;

web: www.york.com



York's new YMA Series of modular air handling units range which can be manufactured in varied configurations, with a wide selection of components to meet customer requirements

Fläkt Woods — One of the Market Leaders in the Industry

Fläkt Woods (Ireland) Ltd is one of the leading players of the building services industry in Ireland. Formally a division of ABB Ltd, Fläkt Woods (Ireland) was incorporated in February 2002, after the global divestment of the ABB Air Handling and Controls Division.

It is one of the market leaders in the design, installation and maintenance of a wide range of ventilation equipment and systems, including Woods fans, Siemens controls, Climaveneta chillers and building management systems.

As part of the international Fläkt Woods Group, which incorporates Fläkt and Woods Air Movement Ltd, it is a recognised international leader in fan development, manufacturing and component supply. Included also are the brands Solyvent Ventec and American Fan. Combined Fläkt and Woods have almost 200 years experience in the building services industry.

Fläkt Woods is a global group with sales companies in 30 countries around the world. Employing over



Fläkt Woods' comprehensive product portfolio caters for all air movement, controls, and building management systems requirements.

3,400 people, they have a turnover in excess of €450 million. With manufacturing facilities in 20 countries there is a strong focus on product development and improvement within the group. Recent innovations in design such as the CentriflowPlus plug fan — the most efficient plug fan in the world — bear this out. As an international leader, the Fläkt Woods Group are committed to developing their market while maintaining and developing strong customer relationships. Fläkt Woods (Ireland) Ltd has its head office located in Tallaght, Dublin 24.

Their client base includes consultants, contractors, distributors, wholesalers, original equipment manufacturers and end-

users. They also have a large number of service contracts nationwide in a number of industry sectors.

Fläkt Woods now also has a regional office in Cork having re-established itself in the area in 2005, following its divestment from ABB in 2002. By relocating to a premises in Eastgate Business Park, Little Island, Fläkt Woods (Ireland) reinforces its commitment to the region, where many of its most important

pharmaceutical, industrial and commercial customers are located.

With Fläkt Woods' team of sales, project management and service engineers all resident in the area, it strives to deliver a quality service to clients at all times.

Fläkt Woods looks forward to continued growth of its reputation and enhancing its position as a number one supplier of quality product and service to the entire Munster region in the future.

For further information on the extensive product offering refer to the website or either of the sales offices in Dublin and Cork.

Contact: John Kelly, Cork Office.
Tel: 086 - 823 3379
email: john.kelly@flaktwoods.com.
Sales Department, Dublin Office.
Tel: 01 - 4634600.
www.flaktwoods.com



Fläkt Woods' dedicated Cork branch office is conveniently located in the Eastgate Business Park, Little Island.

IMI — Delivering Cost-Effective, Health-Conscious & Environmental Solutions

et al.: BS News

Irish Metal Industries Ltd has undergone a number of changes in the last few years, the biggest of which was becoming part of the KME Group the largest manufacturer of copper and copper alloy products in the world.

KME leads the field in the development of innovative, application-oriented solutions and is an expert partner to many different branches of industry.

Becoming part of the KME Group has increased IMI's product range, a key addition being the Wicu brand of 25m plastic-coated copper coils. These coils are available in 8mm, 10mm, 15mm and 22mm sizes, along with the Irish sizes of 1/2" and 3/4". The 50m coils are available in both 10mm and Irish 1/2" sizes.

In Cork these products are available through Dublin

Providers Ltd, Hevac Ltd, Irish International Trading Ltd, BSS Ltd, Heatmerchants Ltd, Aidan O' Shaughnessy Ltd and many other outlets in the Cork area.

As a general overview Irish Metal Industries supplies a complete range of copper tube for hot and cold water installations, gas services, sanitation, central heating and numerous other building and engineering applications. All tubes are manufactured to the stringent requirements of EN : 1057 and IMI is licensed to engrave them with the coveted Irish Standard Mark which is the registered mark of the National Standards Authority in Ireland. IMI also provides a unique 25-year guarantee against manufacturing defect.

According to IMI, the type of material used for the plumbing and heating systems in bathrooms needs to be something the installer and specifier can trust and rely on. This,



essentially, is why copper is the preferred choice of the vast majority of professionals in the industry.

The primary reasons why copper has dominated the market for the past 40 years can be summarised as follows. It is tried, tested and proven; versatile; long-lasting; healthy and safe; good value for money; recyclable; resists heat, corrosion, pressure and fire; non-permeable; and excellent support. Not only does copper tend to be legionella free, but tests also indicate that other bacteria are actually destroyed when in contact with copper-based components.

Contact: Conor Lennon, IMI.
Tel: 01 - 295 2355;
email: conor.lennon@irish-metalindustries.com



BSNews Building Services Product Specification Guide

See for yourself ... log on to www.bsnewsbuyerguide.com and register to **PREVIEW** the site.

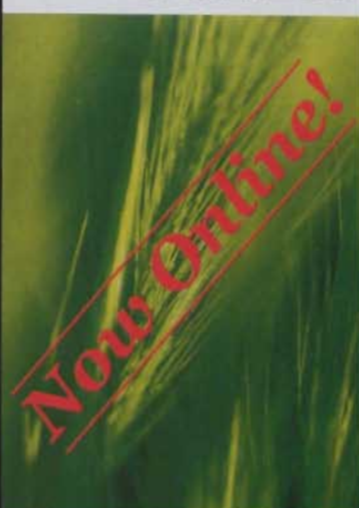
There are a limited number of "Button Adverts" available at a special introductory rate of €750 for the inaugural 12-month period.

The format will comprise your company's logo and a direct email link.

These adverts will be interspersed and repeated within various sub-category sections.

This is an excellent opportunity for you to promote your products to key decision-makers in building services.

BSNews
Building Services
Product Specification Guide



Contact: Joe Warren

tel: 01 - 2885001
mobile: 086 253 7115
email: joe@pressline.ie

'Pumpen Intelligenz' From Wilo Engineering

Wilo Engineering in Limerick recently marked the occasion of its Silver Jubilee with a series of social and business events which reflected well on its standing in the Munster region in particular, and indeed throughout the entire country.

Its parent Wilo is renowned worldwide as one of the foremost manufacturers in pump technology, having been established in Germany in 1872. The spirit and quality of that 130-plus year pedigree is very much evident in the Irish operation and throughout the last 25 years Wilo Engineering has achieved market-leading status across the entire building services spectrum by supplying cutting-edge products and pump systems which it complements with comprehensive design and technical support programmes.

Just recently the company unveiled its new logo, along with details of a worldwide sales and marketing campaign which will reinforce the innovative qualities of the latest range of pumps, and pump systems, now coming on stream.

Incorporated within the new logo design is the "Pumpen Intelligenz" slogan. This epitomises the core philosophy of Wilo and, more especially, the direction of future developments. "At Wilo an emphasis on



Christof Stech, General Manager, Wilo European Central Sales Area with Tony Cusack, Managing Director, Wilo Engineering.

technological progress continuously heightens the demands for efficiency and reliability of fluid handling systems", says Tony Cusack.

"Therefore, we are expanding our application know-how into adjacent market segments and are committed to addressing the challenges of water and wastewater management, for every sphere of application. To that end we listen very carefully to our customers, identify their needs, and then devise sustainable, application-oriented pump products and pump systems to

satisfy that requirement.

"Sewage and wastewater is a specialist market segment with particular needs and we have developed a tailored portfolio under the Wilo EMU brand to serve it. Manufactured under strictly-controlled quality procedures at a dedicated plant in Hof, Bavaria, this is a growing industry sector and one which has particular significance given the increased awareness of, and emphasis on, environmental protection.

"Pumping systems are crucial for the basic

needs of life and the preservation of our environment for future generations. We at Wilo believe that by providing higher-efficiency and lower life-cycle cost pumping solutions, we can help realise that objective while, at the same time, generating commercial benefit for our trading partners such as specifiers, wholesaler and installers".

Already very strong in Munster, Wilo Engineering established a satellite location approximately 18 months ago in Dublin to further support and strengthen the extent of its national coverage. This is now a fully-fledged branch operation serving all of Leinster, the northern counties, the midlands, the west and northwest of the country.

Fully staffed with both sales and technical support personnel, the office is strategically located in Riverview Business Park, immediately adjacent to the M50 and in the heart of what is fast-becoming the main concentration of building services-related companies in Ireland.

It has a direct broadband link to Wilo Engineering in Limerick and includes state-of-the-art training facilities where technical evenings, training seminars and CPD presentations are regularly carried out.

Contact: Wilo Engineering.
Tel: 061 - 227 566;
email: sales@wilo.ie



Wilo energy efficient pumps

Pssst! ...

... want to know the secret of finding that product fast?

Log on to www.bsnewsbuyerguide.com

Blücher Stainless Steel Drainage Solutions From BSS

BSS has had a strong presence in Cork for many years. Throughout that time it has been very involved in the various development stages the region has experienced, be it industrial estates, housing, commercial office parks or the pharmaceutical industry. In the past the emphasis would invariably be on one particular area over another but, such is the rate and scale of present-day activity that BSS is now flat out on all fronts.

Critical to its success is its ability to cater for all these diverse market segments, and to do so by way of ex-stock availability across the entire portfolio of quality, market-leading brands. BSS really is a one-stop-shop for the construction sector, a further strength being the high level of technical support and after-sales service provided.

Despite the intensity of day-to-day activity, BSS still set time aside to look to the future, to identify, assess and source new products, and to bring them to the local marketplace if appropriate. The Blücher range of stainless steel drainage products is the most recent example.

The use of Blücher stainless steel drainage products is

Europe and the UK, especially in the healthcare, pharmaceutical and similar high-demand applications where the performance of the drainage and plumbing systems is critical. BSS Cork has now introduced this cost-effective, high-performance, low-maintenance range to the Munster region with great success.

The potential applications of the Blücher drainage range are virtually limitless, including:—

- Push-fit drainage pipework for above and below ground use;
- Drains suitable for public and industrial areas;
- Linear drainage channel for light and heavy-duty applications;
- Ancillary products such as grease separators, heavy-duty access covers and kitchen channels.

With a high tensile strength, stainless can withstand aggressive rodding without cracking or fracturing, while the smooth bore minimises the risk of waste build-up and blockage. When jointed with an approved silicone-based lubricant, it can be dismantled later and re-used in a new application.

Being push-fit, the



The Blücher range of stainless steel drainage products available through BSS, Cork

system can be installed 40% quicker than traditional systems and, at only a third of the weight of some cast-iron, it also takes fewer operatives to handle and install. Because the fittings are made from the pipe itself, adaptors, components and special fittings can be made on very short lead times.

The floor drains and channels suit all floor finishes, including ceramic and quarry tiles, vinyl, resin and concrete. There is also a removable, self-cleaning, water trap which make access for rodding easy and, as an alternative, a water trap with additional flange seal to withstand flooding. All floor drains are both height and tilt adjustable and come in a variety of

designs, ranging from pedestrian grating for shower areas through to annular hygienic grating for heavy-duty applications.

One of the latest introductions is the new Waterline Shower Channel. Produced specifically for use in floors with or without membranes, it is available in modular lengths of 300mm, 700mm, 800mm, 900mm and 1000mm. It comes with a choice of gratings and is supplied as an off-the-shelf item.

Contact: Michael Quinlan, BSS Cork. Tel: 021 - 432 1588; email: 1960.sales@bssgroup.com
David Lindfield, BSS Dublin. Tel: 01 - 416 5100; email: 1930.sales@bssgroup.com

Total Indoor Climate Systems By Entropic

Entropic Ltd is a supplier of top-of-the-range ventilation equipment to the HVAC industry with a portfolio of products carefully selected to complement each other. All are supplied with extensive technical data and support material, while Entropic's team of experts and designers offer effective solutions for a wide range of projects. The objective is to provide system solutions which lower capital costs, decrease life-cycle costs, and provide excellent functionality. Entropic's mission is "to provide reliable, economical, environmentally-friendly and safe indoor climate solutions".

Critical to that objective is Halton, for whom Entropic is the distributor in Ireland. Specialising in indoor climate and safety technology, Halton is ISO 9001 Quality System certified and is committed to environmentally friendly operations, having achieved ISO 14001 certification. The

range of product options is vast and caters for all manner of applications. Included are cooled beams, kitchen canopies, and low-velocity displacement units.

Entropic has devised quite a number of tailored solutions for some of the most prestigious projects completed in Cork recent years. A typical example is the UCC School of Nursing, which incorporates a wide range of Halton products, including diffusers which automatically change profile to suit airflow temperature with no power source required. These are used in the large lecture theatres while many of the other lecture theatres are ventilated, heated and cooled using the Halton range of underseat auditorium diffusers.

The library uses Halton's adjustable nozzle diffuser to provide large air volumes without draughts while floor and exposed duct grilles are also used and incorporated into the design.

Behind the scenes, airflow is regulated using Halton dampers, including VAV systems which automatically regulate and control the air volumes.

UCC School of Nursing which features quite a number of specialist products from the Halton range



Halton products are also specified on the new UCC School of Pharmacy, which is currently under construction. Included is the Halton UV CaptureRay canopy intended to completely eliminate grease from the kitchen extract.

Other projects in the vicinity featuring Halton CaptureJet technology are the FAS Centre in Bishopstown, currently nearing completion, and Muckross House in Killarney.

A particular strength of the Halton portfolio and the service provided by Entropic covers critical area applications such high-technology industries like pharmaceutical and electronic engineering plants. Here again products available from Entropic have been extensively used,

some blue-chip projects recently completed being:—

- Shut-off dampers, high efficiency louvres and ventilation energy recovery units at the Eli Lilly plant;
- DKS multi nozzle diffusers to replace existing diffusers at Apple Computers. The DKS diffuser eliminated the draught problem caused by the existing 4-way louvre face diffuser without requiring reduction in air volume supplied;
- All the air terminal devices on the re-development of the Cork City Courthouse;
- The Janssen and Pfizer projects also feature Halton equipment.

Contact: Michael Geraghty, Entropic.
Tel: 01 - 610 6170;
email: info@entropic.ie



All the air terminal devices in the refurbished Cork City Courthouse were supplied by Entropic

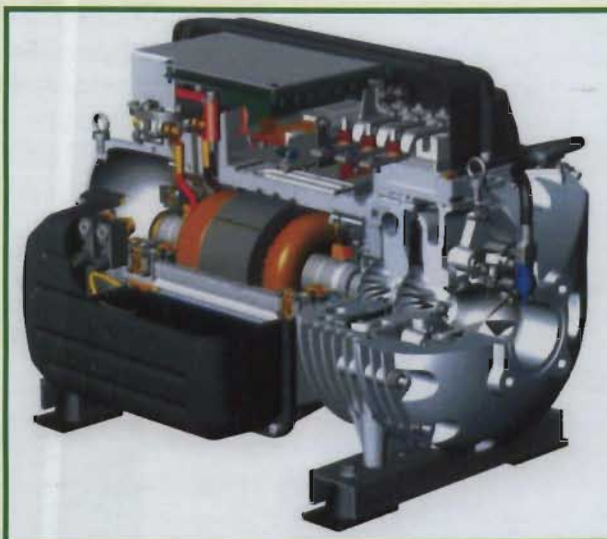
Energy-Efficient Chillers From Aermec

The biggest issue in the air conditioning market today is energy efficiency. One company that is setting new standards in this respect is Aermec, whose products are distributed in the Republic of Ireland by Design Air Ltd, Dublin and Unionaire International Ltd, Newtownards, who look after Northern Ireland.

Aermec is a full range manufacturer of air conditioning products. It is Europe's largest manufacturer of chillers, producing 9,050 last year, and Europe's largest manufacturer of fan coils with 15% of a market share. It is also Italy's number one air conditioning equipment manufacturer. The company has sales of €135 million and employs 560. Importantly, Aermec products are Eurovent certified.

Until just a few years ago nearly all Aermec products were destined for the home market of Italy. Now, under the leadership of Export Director Luigi Rossettini, one third of the products are sold outside Italy, a proportion that is ever-increasing as the company penetrates other European markets.

Aermec equipment is noted for its build quality and for the operational quietness of its products. In Ireland,



The Turbocor water cooled chiller compressor which utilises a small centrifugal compressor, delivers excellent COPs, particularly at part-load operation.

the relevant products are air-cooled chillers to 1600kW; water-cooled chillers to 1800kW; air handling units up to 25m³/s; and two or four-pipe fan coils, all configurations with factory-installed and tested controls.

Chillers are at the heart of every air conditioning system and are also used in factories to produce chilled water for use in various manufacturing processes. The 9050 Aermec chillers per year include water and air cooled models, many available in heat pump mode, many with screw or twin-screw compressors, with a capacity span across the range of 5kW to 1800kW of cooling.

Unlike competitors, Aermec has full-load operating test bays at the end of each chiller production line where every chiller automatically undergoes full load operating testing. Additionally, full load operating tests, at

design conditions, are available in the superbly-equipped Test Chamber.

Aermec has a programme of continuous energy efficiency improvement in place for its products, especially the chillers. This includes a new range of chillers with multi-scrolls, which are exceptionally energy efficient when operating at part load, the mode in which most chillers operate nearly all the time in Ireland.

The latest development is a water cooled chiller which utilises a small centrifugal compressor which delivers excellent COPs, particularly at part-load operation. The compressor, known as Turbocor, features magnetic bearings and, as such, is oil and friction loss free. The technology has been field-tested for two years before launch at IKK. In 2006, the same technology will be used in a new range of air

cooled chillers, which will impact the market in Ireland.

In addition, Aermec has introduced a range of "free-cooling" chillers which can deliver energy efficiency ratios up to a factor of 10 times greater than traditional compressor-only chillers. They are called the NRA chillers and there are 15 models in the capacity range of 50kW to 400kW.

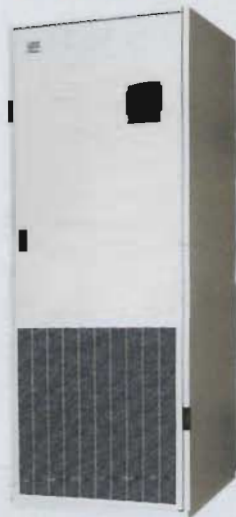
Unlike other manufacturers "free-cooling" chillers, Aermec units can each provide "free-cooling" in different ways, depending upon the ambient conditions. They have additional air-water coils to either supplement or replace the cooling power of the compressors. As the ambient temperature falls below that of the return water, then the "free-cooling" coil is introduced into the chilled water circuit, thus reducing the cooling requirement from the compressor.

As the ambient temperature reduces still further, so does the compressor's operation until finally all of the cooling load is handled by the "free-cooling" coil. What's more, the "free cooling" engages at a much higher ambient temperature than some competitors can achieve. Like all other Aermec products, these chillers are also Eurovent certified.

Contact: Design Air, Dublin.
Tel: 01 - 460 5555;
Unionaire International, Newtownards, NI.
Tel: 048 - 9182 8122.

Liebert HIROSS

HIMOD S



The new HIMOD S range from Liebert-HIROSS raises the bar of performance in precision air conditioning setting new standards in terms of energy-efficiency, compactness and sound emissions, while still offering unmatched environmental control and reliability.

MATRIX



MATRIX is the new Liebert-HIROSS product line of air-cooled chillers designed to combine the best performance in terms of efficiency and reliability with the lowest impact on the environment.

MATRIX S



MATRIX S is the new chiller range from Liebert-HIROSS, covering cooling capacities between 40kW and 280kW. The units have been designed in order to satisfy the requirements of differing applications. It is available in several configurations and with many

HIMOD



The HIMOD range from Liebert-HIROSS is the solution for systems demanding uncompromising reliability and precision, year after year. It is used for conditioning critical systems in a variety of key applications, such as computer rooms, the telecommunications industry and technological sites.



Unit A6, Centre Point Business Park, Oak Road, Clondalkin, Dublin 22

Tel: 01 - 409 8912 Fax: 01 - 409 8916

email: info@coreac.com web: www.coreac.com

Complete Solutions

Building Services News, Vol. 44, Iss. 9 [2005], Art. 1

We offer a complete range of high-quality, competitively priced products for pressure, temperature and level measurement.

- Our range does not only cover the delivery of individual sensors, but includes suitable power supplies and measurement display units.
- Upon request, we do the entire engineering for you, all the way to the production of the finished control systems.
- National and international approvals and certificates assure the highest level of quality.
- A wide selection of materials (e.g. stainless steel 1.4571/1.4435/1.4404, Monel, Hastelloy, Platinum, Titanium, PFA/PTFE coating) and process connections enable perfect adaptation to the process.
- AFRISO measuring devices cover the following ranges:
Pressure: from 0/4 mbar to 0/4.000 bar
Temperature: from -80°C to +600°C
Level: from 0/60 cm to 0/100 m



Pressure Gauges

Digital Pressure Gauges

Pressure Transducers

Diaphragm Seals



Manotherm Limited

4 Walkinstown Road, Dublin 12.

Tel: 01 - 452 2355/452 2229; Fax: 01 - 451 6919

email: info@manotherm.ie

Measurement Technology From Manotherm